SUBJECT INDEX TO VOLUME 68

(ab) = abstract (E) = editorial

Abdomen, acute syndromes of, encountered in medical clinic and their roentgen diagnosis (ab), 835
and pelvis, roentgen examination of subperitoneal space of (ab), 683
Abrodil myelography in herniated disc in lumbar region (ab), 155
Abscess of temporal lobe, cerebral angiography in (ab), 487
Achalasia of esophagus, etiology and treatment of (ab), 493
Achondroplasia, ectodermal dysplasia and congenital morbus cordis (ab), 323
Acne, roentgen therapy in (ab), 705
Acromegaly and contrasting conditions, 565
ACTH and cortisone, effects of, on leukemia in childhood (ab), 168
and cortisone therapy in leukemias and lymphomas of children (ab), 168
treatment of radiation sickness with (ab), 861
use of, in treatment of post-irradiation pulmonary reaction (ab), 541
Adaptometer for preparation for roentgenoscopy (ab), 868
Adenocarcinoma, metastatic, of thyroid, testosterone therapy of, with remission (ab), 863
of cervix uteri, pathology and treatment of (ab), 335
Adenoma of bronchus in nine year old child (ab), 998
Adenoma-carcinoma sequence in cancer of colon (ab), 318
Adrenal gland, calcification in neoplasms of (ab), 154
Afferent loop studies after subtotal gastric resection (ab), 683
Africans, chronic bone infections in (ab), 696
Agenesis of corpus callosum (ab), 140
Alimentary tract, roentgen demonstration and significance of pedicle in polypoid tumors of, 894
Alkaptonuric arthritis (ab), 157
Allen, Moore Lowry, 1893–1952, obituary, 978
portrait, 978
American College of Radiology, group plan of disability income protection under sponsorship of, 135
American Radium Society, new officers of, 298
place of, in progress of modern medicine, 545
American Roentgen Ray Society, Commercial Exhibit at 1952 annual meeting, 827
fifty-third annual meeting of (E), 113; (E), 816
instruction courses given at 1952 annual meeting, 123
ladies program at 1952 annual meeting, 134
new officers for 1952–1953, 828
1952 annual meeting, 474
preliminary program of 1952 annual meeting, 119
scientific exhibit at 1952 meeting, 822
Amniotic fluid, human, study of circulation of (ab), 687
Amyloidosis of stomach, roentgen findings in, 204
Anastomoses, arteriovenous, arteries, veins and, in human stomach (ab), 1014
interarterial coronary, in human heart (ab), 1002
Anastomosis, carotid-internal jugular, in neck, gasometric studies in (ab), 140
femoral arteriovenous, in treatment of occlusive arterial disease (ab), 160
Anatomical castings, use of fusible metal in preparation of, 406
Anatomy, pathologic, of lymphogranuloma, lymphosarcoma and reticulum cell sarcoma (ab), 329
vascular, of certain organs of rabbit, application of microradiography to (ab), 169
Anemia, severe, after transabdominal vagotomy, diaphragmatic hernia with (ab), 511
sickle cell, 28
Anesthesia, aerosol, new bronchographic technique employing, 229
intubation, bronchography with (ab), 506
Aneurysm, cardiac, roentgen methods in diagnosis of (ab), 1001
carotid-cavernous (ab), 1011
intradural arteriovenous (ab), 989
of renal artery (ab), 154
ruptured, of splenic artery (ab), 315
syphilitic, of subclavian artery (ab), 160
ventricular, studied angiocardiographically (ab), 1000
Aneurysmal dilatation, congenital, of ascending aorta associated with arachnodactyly, angiocardiographic study (ab), 507
Aneurysms, congenital and acquired, of pulmonary artery (ab), 1011
saccular arterial, arteriography in (ab), 699
Anginal syndrome, roentgen therapy of 448
Angiocardiography, experimental study of pulmonary embolism by, 627
findings in lung cancer by (ab), 1006
in localization of foreign bodies in heart (ab), 510
in study of congenital aneurysmal dilatation of ascending aorta associated with arachnodactyly (ab), 507
observations from, in some correctible types of congenital cardiovascular disease (ab), 999
selective (ab), 511
selective visualization in (ab), 999

study of innominate artery by (ab), 1011
use of 9½ inch roll film cassette with conventional spot-filming fluoroscopic tables for (ab), 865
ventricular aneurysm studied by (ab), 1000
Angiograms, serial, technique of arteriography of extremities with (ab), 699
Angiography, carotid (ab), 989
cerebral, experimental evaluation of (ab), 866
cerebral, experimental method for evaluation of contrast media used in (ab), 342; (ab), 866
cerebral, in abscess of temporal lobe (ab), 487
cerebral, untoward effects of (E), 462
demonstration by, of anatomic variation in position of transverse dural sinuses (ab), 488
diagnosis by, of spontaneous thrombosis of internal and common carotid arteries (ab), 698
hepatic, possibilities of (ab), 697
percutaneous carotid, complication of (ab), 160
portable cassette changer for (ab), 168
pulmonary (ab), 142
Angiopulmography (ab), 506
Anomalies, congenital, of genitourinary tract as cause of obscure disease (ab), 517
Anthracosilicosis, tuberculosis in (ab), 1005
Antibiotics, steatorrhea following use of (ab), 150
Aorta, ascending, congenital aneurysmal dilatation of, associated with arachnodactyly, angiocardiographic study (ab), 507
coarctation of (ab), 496
diagnosis and treatment of rings of (ab), 507
diagnosis of septal defect of, by retrograde aortography (ab), 144
double arch of (ab), 144
left ascending, with right arch and right descending aorta (ab), 144
roentgen diagnosis of dextroposition of, 386
transposition of (ab), 496
Aortography following percutaneous retrograde catheterization of femoral artery and aorta (ab), 528
in diagnosis of peripheral vascular disease (ab), 332
lumbar, technique and indications of (ab), 847
retrograde, diagnosis of aortic septal defect by (ab), 144
serial, in surgical diseases of kidney (ab), 840
Apophysis, ring, of human vertebra (ab), 156
Appendix, rapid procedure for roentgen visualization of (ab), 316
Arachnodactyly, congenital aneurysmal dilatation of ascending aorta associated with, angiocardiographic study (ab), 507
Arachnoiditis of optic chiasm, roentgen changes in (ab), 488
Arizona Radiological Society, 134
Arnold-Chiari malformation (ab), 988
Arterial disease, occlusive, femoral arteriovenous anastomosis in treatment of (ab), 160
spasm, prolonged traumatic, after supracondylar fracture of humerus (ab), 155
stems, main, complete transposition of (ab), 508
Arteries, aberrant systemic, to lower lung (ab), 998
anomalous, congenital cystic disease of lung associated with (ab), 1003
internal and common carotid, angiographic diagnosis of spontaneous thrombosis of (ab), 698
intracranial, arteriographic demonstration of spasm of (ab), 699
Arteriograms, experience and observations on basis of four hundred (ab), 332
Arteriography, cerebral, in general hospital practice (ab), 490
demonstration by, of spasm of intracranial arteries (ab), 699
in diseases of bone (ab), 842
of extremities with serial angiograms, technique of (ab), 699
percutaneous vertebral (ab), 698
renal, following percutaneous retrograde catheterization of femoral artery and aorta (ab), 528
visualization by, of choroid plexus of temporal horn of lateral ventricle, 403
Arteriosclerosis in infancy (ab), 849
peripheral, roentgenographic differentiation of, 619
relation of calcification of vas deferens to (ab), 154
Artery, innominate, angiocardiographic study of (ab), 1011
internal carotid, thrombosis of (ab), 1010
pulmonary, congenital and acquired aneurysms of (ab), 1011
pulmonary, temporary unilateral occlusion of (ab), 678
pulmonary, transposition of (ab), 496
renal, aneurysm of (ab), 154
splenic, ruptured aneurysm of (ab), 315
subclavian, syphilitic aneurysm of (ab), 160
Arthritis, alkaptonuric (ab), 157
juvenile rheumatoid (ab), 525
Arthrodesis. See also Pan-arthrodesis
ischiofemoral, by posterior approach (ab), 156
of foot, late results of (ab), 693
Arthrography of hip joint, 736
of hip, technique for, 107
Arthroses, radiotherapy of (ab), 534
Asbestosis associated with bronchogenic carcinoma (ab), 999
Ascites associated with malignancy, use of radioactive colloidal gold in, 413
Asthma, bronchial, treatment of, by means of nitrogen mustards (ab), 860
Atelectasis, linear basal, following therapeutic phrenic nerve interruption (ab), 1009
of right middle lobe (ab), 996

Atlanta Radiological Society, 134
Atresia, esophageal, roentgen considerations in tracheo-esophageal fistula without (ab), 992
tricuspid, demonstration of, by roentgen cinematography (ab), 511
Atrium, left, roentgen method for early detection of enlargement of (ab), 141
Atrophy, unilateral cerebral, early and discrete roentgen signs of (ab), 673
Aureomycin therapy, lesions of rectum and sigmoid colon which responded to (ab), 686
Automobile workers, silicosis encountered among (ab), 679
Autoradiography. See Radioautography
Azide, protection of mice against lethal dose of roentgen rays by (ab), 866

Backache and its relation to ruptures of intervertebral discs (ab), 691
Baltimore Medical Society, Radiological Section of, 475
Bantu, syphilitic disease of long bones in (ab), 697
Barium enemas in colostomy patients, new method for obtaining (ab), 317
Benzoic acid derivative, comparison with priodax for cholecystography, 900
Beryllium poisoning, current concepts of (ab), 868
Betatron in cancer therapy (ab), 701; (ab), 873
31 mev. (ab), 872
31 mev., adaptation of, to medical applications and shielding problems (ab), 873
31 mev., installation at University Radiological Institute attached to Zurich Cantonal Hospital (ab), 872
23 mev., biological evaluation of skin effects of, 644
Biochemical effects of ionizing radiations (ab), 346
Biopsy, gastroscopic, in differential diagnosis of gastritis and carcinoma (ab), 147
Birthmarks, treatment of (ab), 850
Bladder, cavernous hemangioma of (ab), 518
urinary, endovesical irradiation of tumors of, using radioactive cobalt (ab), 860
urinary, partial pelvic evisceration in treatment of carcinoma of cervix invading (ab), 518
Blood-brain barrier, studies on, with radioactive phosphorus (ab), 167
Blood cells, red, life span of, in chronic leukemia and polycythemia (ab), 527
iodine fractions, changes in, and radioactivity under therapy (ab), 858
Body build and heart shape (ab), 509
Boeck's sarcoid, causes of death in (ab), 849
cortisone therapy of (ab), 862
Bone age in osteogenesis imperfecta, therapeutic acceleration of (ab), 521
anomalous tarsal (ab), 524
arteriography in diseases of (ab), 842
bank, merthiolate, clinical valuation of, and homogenous bone grafts (ab), 527
benign chondroblastoma of (ab), 526
density, apparatus for determining, by means of radioactive strontium (ab), 166
disease, mother-of-pearl (ab), 696
dosage in irradiated (ab), 349
epiphyseal chondroblastoma of (ab), 521
grafts, homogenous, clinical evaluation of merthiolate bone bank and (ab), 527
growing, influence of pressure and tension on, in experiments with animals (ab), 544
growth, with respect to zones and transverse lines of increased density in metaphysis, 709
infections, chronic, in Africans (ab), 696
lesions of gargoylism (ab), 849
multiple lesions of, in eosinophilic granuloma (ab), 323
nature of benign solitary myeloma of (ab), 696
pathology, problems in (ab), 526
sarcoma, atypical forms of (ab), 695
study of early phases of calcification in, with radioactive phosphorus (ab), 854
tuberculosis of, with negative tuberculin test (ab), 158
undecalcified, method for embedding, for histologic sectioning, application to radioautography (ab), 165
widespread hemangiomatosis of (ab), 696
Bones, giant cell tumors of (ab), 159
long, of newborn infants, roentgenological "double contour" effect in (ab), 842
long, syphilitic disease of, in Bantu (ab), 697
multiple carpal, laminagraphic study of (ab), 322
Book reviews
Die gesunde und kranke Wirbelsäule in Röntgenbild und Klinik. By Georg Schmorl, 302
Abdominal Distension and Intestinal Activity Following Laparatomy. By Andreas Høyer, 302
Diagnosis and Treatment of Menstrual Disorders and Sterility. By Charles Mazer and S. Leon Israel, 303
Die Entzündungsbestrahlung. By R. Glauner, 304
La malattia sclerodermica. By Guido Bassi, 305
Mécanismes de l'action biologique des radiations. By M. Errera and A. Herve, 305
Law of Hospital, Physician, and Patient. By Emanuel Hayt, Lillian R. Hayt and August H. Groeschel, 306
Consolidated Indices. Volume III. Author and Subject: 1943–1947 (Vol. 49–58), of the American Journal of Roentgenology and Radium Therapy, 476
Angiocardiography. By Charles T. Dotter and Israel Steinberg, 476
Röntgendiagnostik des Herzens und der grossen Gefasse. By Erich Zdansky, 478

Roentgen Examinations in Acute Abdominal Diseases. By J. Frimman-Dahl, 478
Radiologia Austriaca, 479
Pathology of the Fetus and the Newborn. By Edith L. Potter, 479
Physiology of the Eye. By Francis Heed Adler, 480
Eyes and Industry. By Hedwig S. Kuhn, 480
Recommendations for Waste Disposal of Phosphorus-32 and Iodine-131 for Medical Users, 480
Control and Removal of Radioactive Contamination in Laboratories, 481
Roentgen Anatomy. By David Steel, 665
Clinical and Roentgenologic Evaluation of the Pelvis in Obstetrics. By Howard C. Moloy, 665
Verletzungen der Lungen und des Brustkorbes. By Walter Steffens, 666
Einführung in die Röntgenophotographie. By John Eggert, 666
The Management of Fractures, Dislocations, and Sprains. By John Albert Key and H. Earle Conwell, 667
Vernal Conjunctivitis. By M. N. Beigelman, 668
Radiologic Physics. By Charles Weyl and S. Reid Warren, Jr., 668
Annual Report on Stress. By Hans Selye, 669

Brain, roentgen therapy of primary neoplasms of (ab), 164
tumor, uses of nuclear disintegration in diagnosis and treatment of (ab), 858
tumors and Morgagni's syndrome (ab), 490
tumors, evaluation of radioactive mapping technique in surgery of (ab), 337

Breast, analogous mouse tumors dbrB and C_3H, radiosensitivity of (ab), 869
cancer (ab), 704
cancer, absolute curability of (ab), 502
cancer, evaluation of present classification of, based on frequency of metastases (ab), 852
cancer, roentgenography of, 1
cancer, steroids in (ab), 864
carcinoma, results of treatment (ab), 334
carcinoma, steroid hormone therapy in, 954
cystosarcoma phyllodes of (ab), 675
male, carcinoma of (ab), 1010
pathological classification to facilitate roentgenography of, 1
previously irradiated, multicentric mammary cancer developing in, 452
roentgenology and pathology of cyclic disturbances in (ab), 1009
rotational scanning of malignancies of, with supervoltage radiation, 435
single portal massive dose roentgen therapy for recurrent cancers of (ab), 852

British Institute of Radiology, annual meeting of, 663

Bronchi, carcinoma, esophagus and mediastinal lymphadenopathy in (ab), 1008
carcinoma of (ab), 501
carcinoma, roentgen examination in (ab), 998
mucoid impaction of (ab), 143
obstruction of, in tuberculosis (ab), 996

Bronchiectasis with unsuspected foreign body (ab), 678

Bronchogenic cysts (ab), 143

Bronchography as aid in planning surgical treatment of pulmonary tuberculosis (ab), 142
directed, with diiodone (ab), 505
elimination of water-soluble contrast medium in (ab), 1007
in pulmonary tuberculosis (ab), 679
new kind of accident due to use of water-soluble contrast media in (ab), 1007
new technique of, employing aerosol anesthesia, 229
with intubation anesthesia (ab), 506

Bronchopulmonary candidosis (moniliasis) (ab), 143
segments (ab), 994

Bronchus, adenoma of, in nine year old child (ab), 998
and lung, lipoma of (ab), 144

Bursitis, humeroscapular, radiotherapy of (ab), 851
radiotherapy in treatment of (ab), 705

Caffey-Smyth syndrome (ab), 842

Calcification in adrenal neoplasms (ab), 154
in bone, study of early phases of, with radioactive phosphorus (ab), 854
intra-abdominal, significance of, in newborn infant, 395
of vas deferens (ab), 154
suprasellar tumors with (ab), 487

Calcifications, valvular, value of roentgen demonstration of (ab), 510

Calcinosis in scleroderma, 918
syndrome (ab), 700
treatment of (ab), 700

California Medical Association, Section on Radiology of, 299

Canal of Wirsung, injection of during cholangiography (ab), 681

Cancer, betatron in therapy of (ab), 701; (ab), 873
bronchogenic, nitrogen mustard as adjunct to radiation in management of (ab), 340
cervical, clinical results following different methods of radium application used in treatment of from 1921 to 1947, 925
Hürthle-cell, of thyroid (ab), 492
inoperable oral, control of, with massive roentgen therapy (ab), 702
multicentric mammary, developing in previously irradiated breast, 452
nonresectable head and neck, use of radioactive cobalt in (ab), 854
of breast (ab), 704

of breast, absolute curability of (ab), 502
of breast, evaluation of present classification of, based on frequency of metastases (ab), 852
of breast, roentgenography of, 1
of breast, steroids in (ab), 864
of cervix uteri (ab), 153
of cervix uteri, interstitial radium therapy in treatment of, 58
of cervix uteri, intracavitary radium technique in treatment of, 47
of cervix uteri, physical approach to design of applicators in radium therapy of, 935
of cervix uteri, roentgen therapy in treatment of, 63
of cervix uteri treated only by radiotherapy, study of survival of patients with (ab), 704
of colon, adenoma-carcinoma sequence in (ab), 318
of large intestine (ab), 837
of larynx, radiotherapy in (ab), 161
of larynx, roentgen therapy of (ab), 162; (ab), 163
of lung, early diagnosis and treatment of (ab), 505
of lungs, angiocardiographic findings in (ab), 1006
of thyroid, exploration of, by radioactive iodine (ab), 857
of thyroid with radioactive iodine, limitations and indications in treatment of (ab), 538
of trachea, tracheographic diagnosis of (ab), 1009
of upper respiratory tract, parotid gland and recurrent breast, single portal massive dose roentgen therapy for (ab), 852
of uterine cervix, radium treatment of, by Manchester system, 272
of uterine cervix, treatment with radiation (ab), 532
oral, treatment of, by combination of radiotherapy and surgery (ab), 531
physical aspects of treatment of, by 22 mev. roentgen rays (ab), 348
program, radioisotopes for, 300
radiation, of pharynx (ab), 703
research, fundamental, symposium on, 298
seminar, Colorado Springs, 298
technically inoperable, combined radiation therapy and surgical treatment of (ab), 530
terminal bronchiolar or "alveolar cell" of lung (ab), 499
Candidosis, bronchopulmonary (ab), 143
Carcinoma, and gastritis, gastroscopic biopsy in differential diagnosis of (ab), 147
bronchial, esophagus and mediastinal lymphadenopathy in (ab), 1008
bronchial, roentgen examination in (ab), 998
bronchiogenic (ab), 501
bronchogenic, asbestosis associated with (ab), 999
bronchogenic, pulmonary tuberculosis, bronchiectasis, and calcification as related to (ab), 996
epidermoid, of cervix uteri, with late metastases to respiratory and digestive systems (ab), 687
intralaryngeal, functional results and permanence of cure following roentgen therapy of (ab), 163
intrinsic, of larynx, influence of radiology in diagnosis and treatment of (ab), 703
mammary, steroid hormone therapy in, 954
metastatic, of lung, circulatory failure in (ab), 999
of breast, results of treatment (ab), 334
of cervix, effect of radiation on metastatic pelvic lymph node involvement in (ab), 533
of cervix invading urinary bladder, partial pelvic evisceration in treatment of (ab), 518
of cervix, treatment of, with five-day radium only (ab), 704
of cervix uteri (ab), 335
of cervix uteri, panhysterectomy in treatment of (ab), 165
of cervix uteri, radium therapy of (ab), 165
of cervix uteri, surgery in management of (ab), 837
of cervix uteri, treatment of, 72
of corpus uteri, comparative study of various radiation methods as adjuncts to surgery in, 770
of esophagus or cardia of stomach (ab), 993
of esophagus, roentgen therapy in (ab), 164
of larynx, roentgen therapy of (ab), 161
of lung, roentgen diagnosis of intrathoracic lymph node metastases in (ab), 499
of male breast (ab), 1010
of ovary, clinical and pathological evaluation (ab), 335
of rectum and sigmoid, medial deviation of ureters complicating (ab), 319
of stomach (ab), 314
of tail of pancreas (ab), 513
of thymus of granulomatous type (ab), 674
of thyroid gland in youth (ab), 537
of thyroid, study and treatment of 119 cases of, with radioactive iodine (ab), 708
of tongue, 81
of uterine cervix, gastrointestinal complications of irradiation for (ab), 533
of urethra (ab), 518
ovarian, end results in treatment of, with surgery and deep roentgen irradiation (ab), 853
primary, of male urethra (ab), 321
primary, of vagina (ab), 334
secondary, of phalanges (ab), 844
simple gastric ulcer and (ab), 685
thyroid, with multiple metastases and patho-

logical fracture, successfully treated with radioiodine (ab), 853
traumatic lung (ab), 680
Carcinomatosis of pleura, radioactive isotopes in palliative management of (ab), 854
Carcinosarcoma of lung (ab), 500
Cardiospasm, pulmonary changes related to (ab), 496
pulmonary complications of (ab), 495
Cardiovascular disease, congenital, angiocardiographic observations in some correctible types of (ab), 999
Carotid system, internal, hemiplegia and thrombosis of (ab), 1000
Cassette changer, portable, for angiography (ab), 168
Catheterization, heart, roentgen aspects of, 610
right heart, myocardial damage following inadvertent deep cannulation of coronary sinus during (ab), 676
Cecum, volvulus of, 399
Cerebellopontine angle tumors, roentgen manifestations (ab), 487
Cerebral angiography in abscess of temporal lobe (ab), 487
angiography, experimental evaluation of (ab), 866
angiography, experimental evaluation of certain contrast media used for (ab), 866
angiography, untoward effects of (E), 462
arteriography in general hospital practice (ab), 490
atrophy, unilateral, early and discrete roentgen signs of (ab), 673
Cerebrospinal fluid absorptive block mechanisms, pneumoencephalographic study of (ab), 321
and radioactive sodium (ab), 855
Cerrolow 117 used as radiopaque contrast medium and in preparation of anatomical castings, 406
Cervix uteri. See also Endocervix
adenocarcinoma, pathology and treatment of (ab), 335
adenocarcinomas, radiation effects on (ab), 533
cancer, clinical results following different methods of radium application used in treatment of, from 1921 to 1947, 925
cancer, interstitial radium therapy in treatment of, 58
cancer, intracavitary radium technique in treatment of, 47
cancer of (ab), 153
cancer, physical approach to design of applicators in radium therapy of, 935
cancer, radium treatment of, by Manchester system, 272
cancer, roentgen therapy in treatment of, 63
cancer, treated only by radiotherapy, study of survival of patients with (ab), 704
cancer, treatment with radiation (ab), 532
carcinoma (ab), 335
carcinoma, effect of radiation on metastatic pelvic lymph node involvement in (ab), 533
carcinoma, gastrointestinal complications of irradiation for (ab), 533
carcinoma, invading urinary bladder, partial pelvic evisceration in treatment of (ab), 518
carcinoma, panhysterectomy in treatment of (ab), 165
carcinoma, radium therapy of (ab), 165
carcinoma, surgery in management of (ab), 837
carcinoma, treatment of, 72
carcinoma, treatment of, with five-day radium only (ab), 704
epidermoid carcinoma, with late metastases to respiratory and digestive systems (ab), 687
Chaoul contact irradiation, high dosage, of melanoma of temple, jacksonian epilepsy after (ab), 702
Chemotherapeutics, treatment of tuberculosis of great trochanter by (ab), 863
Chemotherapy in treatment of malignant disease (ab), 327
Chest Clinic, Harvard Public-health (ab), 995
clinical importance of lesions undetected in mass roentgenographic survey of (ab), 313
correlation of postmortem pathological observations with roentgenograms of (ab), 312
extracardiac arteriovenous fistulas in (ab), 676
foreign bodies discovered by roentgen survey of, 725
mass roentgenology of, in United States (ab), 996
method of rapid photofluorography of, 457
pathology, screening for, using mass roentgen survey technique (ab), 1004
radioautography of, 355
roentgen survey, mass, for tuberculosis case-finding, detection of heart disease in (ab), 1005
serial roentgenograms of, role of, in estimating progress of disease in patients with pulmonary tuberculosis (ab), 312
surveys, photofluorographic, detection of unsuspected heart disease in (ab), 510
technique for roentgenography of (ab), 868
teleroentgenograms, postmortem, 984
Chiasm, optic, roentgen changes in arachnoiditis of (ab), 488
Chicago Roentgen Society, 475
Childhood, cholecystitis in (ab), 1013
morphologic basis for roentgen changes in leukemia in (ab), 528
origin of lung cysts in (ab), 998
pericarditis calculosa in (ab), 498
Children, ACTH and cortisone therapy in leukemias and lymphomas of (ab), 168
digital markings in roentgenograms of skull in (ab), 988

diverse disturbances in bone formation in, 709
effects of ACTH and cortisone on leukemia in (ab), 168
new method of roentgen examination of pancreas in (ab), 834
peptic ulcer in (ab), 685
phaeochromocytomata in (ab), 333
renal tumors in (ab), 839
reticulo-endotheliosis of, treatment with roentgen rays (ab), 329
retroperitoneal teratomas in (ab), 316
Cholangiography, injection of canal of Wirsung during (ab), 681
operative (ab), 313
Cholecystectomy, complications following, due to incomplete removal of gallbladder and cystic duct (ab), 682
Cholecystitis, acute gaseous (ab), 313
emphysematous (ab), 150
in childhood (ab), 1013
Cholecystography, comparison study of new contrast medium and priodax, 900
lateral and frontal studies in (ab), 682
telepaque, a new medium for, 360
Chondroangiopathia calcarea seu punctata (ab), 515
Chondroblastoma, benign, of bone (ab), 526
epiphyseal, of bone (ab), 521
Chondrodystrophia calcificans congenita (ab), 526
Chondro-osseous defect, irregular familial (ab), 157
Choroid plexus of temporal horn of lateral ventricle, arteriographic visualization of, 403
Chylothorax, conservative method of management (ab), 1007
Cinefluorography, study of mechanics of ventricular contraction by (ab), 146
Cinematography, roentgen, demonstration of tricuspid atresia by (ab), 511
roentgen, patent ductus Botalli in (ab), 1001
Circulation of human amniotic fluid (ab), 687
venous, in liver, roentgen demonstration of (ab), 698
Circulatory failure in metastatic carcinoma of lung (ab), 999
Cisternography, technique, indications and results (ab), 491
Coarctation of aorta (ab), 496
Cobalt, radioactive, as plastic preparation for radiation therapy (ab), 539
radioactive, endovesical irradiation of tumors of urinary bladder using (ab), 860
radioactive, in nonresectable head and neck cancer (ab), 854
60 and radium, comparative effects of, when implanted interstitially in skin of rabbits, 89
Colitis, ulcerative (ab), 318
ulcerative, reversibility in (ab), 151
Collagen structures, roentgen spectrographic investigations on, in wound healing (ab), 544
Colon, cancer, adenoma-carcinoma sequence in (ab), 318
congenital microcolon (ab), 318
double, differentiation of cases into two groups, 22
important clinical dividends from roentgen examination of (ab), 686
sigmoid, nonspecific granuloma of (ab), 686
transverse, congenital obstruction of (ab), 686
Color as teaching aid for diagnostic roentgenology (ab), 169
in roentgenography (ab), 354
Colorado Radiological Society, 984
Colostomy patients, new method for obtaining barium enemas in (ab), 317
Compounds, organic halogen, radiation chemistry of (ab), 346
Congenital fusion of cervical vertebrae, 369
microcolon (ab), 318
stippled epiphyses (ab), 322
Contrast media, diagnosis of placenta previa without use of, 255
used for cerebral angiography, experimental evaluation of (ab), 866
used in cerebral angiography, experimental method for evaluation of (ab), 342
Contract medium, radiopaque, use of fusible metal as, 406
water-soluble, elimination of, in bronchography (ab), 1007
water-soluble, new kind of accident due to use of, in bronchography (ab), 1007
Coolidge, William D., award to, 475
Corpus callosum, agenesis of (ab), 140
lipoma of (ab), 140
Cortical defect due to periosteal desmoids (ab), 693
Cortisone and ACTH, effects of, on leukemia in childhood (ab), 168
and ACTH therapy in leukemias and lymphomas of children (ab), 168
Hand-Schüller-Christian syndrome treated with (ab), 540
therapy of Boeck's sarcoid (ab), 862
therapy in sarcoidosis (ab), 861
treatment, favorable response of sarcoidosis to (ab), 862
use of, in treatment of post-irradiation pulmonary reaction (ab), 541
Cousins, first, hypopituitarism in (ab), 989
Cowan, Leland R., portrait opposite page 545.
Cretinism, experimental, production of, in dogs by administration of radioactive iodine (ab), 857
Cubitus varus (ab), 155
Cyanide, protection of mice against lethal dose of roentgen rays by (ab), 866
Cyst formation in relation to stomach and esophagus (ab), 683
pleuropericardial, clinical significance of (ab), 497

solitary, of kidney and its relation to renal tumor (ab), 839
Cystadenoma lymphomatosum, papillary (ab), 140
Cysteine, reduction of toxicity of nitrogen mustards by (ab), 340
Cystosarcoma phyllodes of breast (ab), 675
Cysts, bronchogenic (ab), 143
diagnostic kidney puncture in, 209
gas, of intestine with pneumoperitoneum (ab), 836
lung, in childhood, origin of (ab), 998
pericardial, 584
pericardial celomic, difficulty of diagnosis (ab), 497
Cytological study of upper gastrointestinal sediment (ab), 314
Cytology, genital, in obstetric and gynecologic patients (ab), 320

Defect, auricular septal, in one of monozygotic twins (ab), 1003
Dental roentgen manifestations of systemic disease (ab), 990
Deossifications, reflex hyperemic (ab), 694
Desmoids, periosteal, cortical defect due to (ab), 693
Dextroposition of aorta, roentgen diagnosis of, 386
Diabetes insipidus, possibility of radiotherapeutic origin (ab), 530
mellitus, relation of calcification of vas deferens to (ab), 154
Diabetic, nonclostridial gas infection in (ab), 333
Diaphragm, hernia of (ab), 833
hernia of, with severe anemia after transabdominal vagotomy (ab), 511
Diiodone, directed bronchography with (ab), 505
Diodrast, and neo-iopax, controlled study of, for intravenous urography, 903
for arthrography of hip joint, 736
intracarotid, effects of (ab), 1010
Direct current amplifier recording system for precise measurement of depth dose, 788
Discography, technique, indications and evaluation of normal and abnormal intervertebral disc (ab), 552
Disease, congenital cystic, of lung, associated with anomalous arteries (ab), 1003
entity "microlithiasis alveolaris pulmonum" (ab), 997
obscure, congenital anomalies of genitourinary tract as cause of (ab), 517
peripheral vascular, aortography in diagnosis of (ab), 332
systemic, dental roentgenologic manifestations of (ab), 990
Diseases, hepatosplenic, portal phlebography in exploration of (ab), 332
Dislocations, traumatic, of hip (ab), 692
Diverticula, functional, of thoracic esophagus (ab), 992
gastric, 8
of anterior urethra in male (ab), 689
Diverticulosis of jejunum (ab), 315
Diverticulum of left ventricle of heart (ab), 677
Dosage control in interstitial gamma-ray therapy (ab), 351
in irradiated soft tissue and bone (ab), 349
estimation in roentgen treatment (ab), 352
estimation, instrument for, with fields of any size and shape (ab), 353
radiation, personal diary of (ab), 542
tissue, determination of (ab), 341
Dose computing device, roentgen therapy, especially for rotation therapy with high energy (2 mev.), 797
depth, direct current amplifier recording system for precise measurement of, 788
Doses, radiation, from diagnostic roentgen studies (ab), 341
single massive, effect of, of roentgen radiation upon liver (ab), 543
Ductus Botalli, patent, in roentgen cinematography (ab), 1001
Duodenopathies, parasitic, various aspects of (ab), 681
Duodenum, chronic intermittent arteriomesenteric occlusion of (ab), 149
healing of primary ulcer of, with later development of gastric ulcer (ab), 513
inversum (ab), 149
perforation of ulcer of, during roentgenoscopy (ab), 149
prolapse of gastric mucosa into (ab), 513
prolapse of gastric mucosa into bulb of (ab), 512
roentgenographic demonstration of alterations of loop of, by extrinsic lesions, 764
traumatic retroperitoneal rupture of (ab), 315
Dysplasia, chondroectodermal, 875
polyostotic fibrous, of vertebrae, compression of spinal cord by (ab), 522
ectodermal, achondroplasia and congenital morbus cordis (ab), 323
Dystocia, pelvic dimensions in (ab), 687
Dystrophia myotonica, roentgen changes in skull in (ab), 990
Dystrophies, generalized osseous, nomenclature of (ab), 157

Eastern Conference of Radiologists, 984
Ebstein's disease, first case diagnosed during life (ab), 677
Editorials
The Annual Meeting of the American Roentgen Ray Society, 113
Roentgenographic Visualization of the Intervertebral Disc, 291
Untoward Effects of Cerebral Angiography, 462
Davis Spangler, 1892–1952, 465
Julius B. Wantz, 1874–1952, 467
B. Swayne Putts, 1882–1952, 469

Pneumoperitoneum and Pneumoretroperitoneum, 655
The Fifty-third Annual Meeting of the American Roentgen Ray Society, 816
Roentgen-ray Protection Design, 972
Rolla George Karshner, 1888–1952, 976
Moore Lowry Allen, 1893–1952, 978
Effusion, pericardial, roentgen diagnosis of (ab), 497
Effusions, pleural, use of radioactive colloidal gold in, 413
Elbow, bow (cubitus varus) (ab), 155
Electrokymography, studies by, in pulmonary stenosis and tetralogy of Fallot (ab), 678
Electron beam instruments, stray roentgen rays, from, and some biological implications (ab), 874
Ellis-van Creveld disease, 875
Embolism, pantopaque pulmonary, during myelography (ab), 141
pulmonary, experimental angiocardiographic study, 627
Emphysema, mediastinal, occurring with therapeutic pneumoperitoneum (ab), 503
Emphysematous cholecystitis (ab), 150
gastritis, 15
Endocervix, normal, radiation effects on (ab), 533
Endocrine disturbances as manifestation of systemic disease (ab), 990
Epididymography (ab), 518
Epilation, selective, chemical, in treatment of tinea capitis as contrasted with diffuse roentgen epilation (ab), 541
Epilepsy, jacksonian, after high dosage Chaoul contact irradiation of melanoma of temple (ab), 702
Epiphyses, congenital stippled (ab), 322
displaced capital femoral, study of (ab), 523
metatarsal, union of, 37
Epithelioma. See Esthesioneuro-epithelioma
Epituberculosis in infancy (ab), 504
Esophageal hiatus, diagnosis of early gastric herniation at (ab), 148
Esophagogram, recumbent, roentgen method for early detection of left atrial enlargement (ab), 141
Esophagus. See also Mega-esophagus
and mediastinal lymphadenopathy in bronchial carcinoma (ab), 1008
barium-filled, appearance of, in roentgen diagnosis of pericardial effusion (ab), 497
carcinoma of (ab), 993
carcinoma, roentgen therapy in (ab), 164
cervical, mediastinitis following foreign body perforation of (ab), 1008
cyst formation in relation to (ab), 683
etiology and treatment of achalasia of (ab), 493
perforated ulcer of (ab), 494
perforations of, 183
primary melanosarcoma of (ab), 993
short, complications and surgical treatment of (ab), 493
spontaneous rupture of (ab), 140; (ab), 494
thoracic, functional diverticula of (ab), 992
ulcer of, in infancy, 634
Esthesioneuro-epithelioma, olfactory (ab), 491
Eutocia, pelvic dimensions in (ab), 687
Exenteration, partial or complete pelvic, for extensive irradiation necrosis of pelvic viscera in female (ab), 534
Exoperitoneal insufflation through suprapubic space (ab), 683
Exophthalmos, malignant, myasthenia gravis and (ab), 851
Extremities, technique of arteriography of, with serial angiograms (ab), 699

Fat tissue, perirenal, roentgen reticular appearance of, in extraperitoneal pneumoabdomen (retropneumoperitoneum) and tomography (ab), 835
Fellowships, medical research, 829
Femur, complications of intramedullary fixation of fractures of (ab), 692
fractures of, treated by means of diamond-shaped medullary nail (ab), 523
study of displaced capital epiphyses of (ab), 523
Fetus, ureter in (ab), 840
Fever, Queensland, roentgen pulmonary manifestations of (ab), 1004
rheumatic, and rheumatic heart disease (ab), 1003
Filariasis, radiation of hemolymphochyluria due to (ab), 851
Film processing in roentgenology, application of Land method of (ab), 865
projector for full-sized original roentgenograms (ab), 168
Filter, non-uniform, to produce flat isodose surface of roentgen-ray intensity, 950
Fistula, cutaneo-osteovesical (ab), 524
gastroduodenale (ab), 512
internal biliary, due to peptic ulcer (ab), 685
tracheo-esophageal, without esophageal atresia, roentgen considerations in (ab), 992
Fistulas, cervical arteriovenous, complications and effects observed in 33 patients with (ab), 160
congenital recto-urethral (ab), 837
extracardiac arteriovenous, in thorax (ab), 676
Florida Radiological Society, 134
Foot, late results of arthrodesis of (ab), 693
paralytic flail, pan-arthrodesis for (ab), 694
Foreign bodies discovered by chest roentgen survey, 725
in heart, angiocardiography in localization of (ab), 510
intrathoracic, roentgen kymographic localization of, 216

Foreign body, bronchiectasis with unsuspected (ab), 678
perforation of cervical esophagus, mediastinitis following (ab), 1008
Fracture, supracondylar, of humerus, prolonged traumatic arterial spasm after (ab), 155
Fractures, healed Colles', evaluation of (ab), 522
of femur, complications of intramedullary fixation of (ab), 692
of femur treated by means of diamond-shaped medullary nail (ab), 523
trochanteric, treatment of (ab), 692
vertebral, resulting from convulsive shock therapy, roentgen evaluation of, 247

Gallbladder, and its pathways, laminagraphic studies of (ab), 313
angulations (ab), 1012
functional roentgenology of (ab), 682
improved visualization of, with telepaque, 360
left upper quadrant (ab), 514
postcholecystectomy complications due to incomplete removal of, and cystic duct (ab), 682
test for more accurate recognition of, and liver bile during diagnostic biliary drainage (ab), 514
Gallium, radioactive, use of, in medicine (ab), 859
Gamma irradiation, long-continued whole body, of mice, histological effects of (ab), 870
-ray therapy, interstitial dosage control in (ab), 351
rays, lethal irradiation of mice with high doses of (ab), 346
Gargoylism, clinical features, diagnosis and osseous lesions of (ab), 849
Gas in lesser sac in perforated peptic ulcer, 19
infection, nonclostridial, in diabetic (ab), 333
Gasometric studies in carotid-internal jugular anastomosis in neck (ab), 140
Gastrectomy, clinical study of early post-gastrectomy syndrome (ab), 147
Gastritis and carcinoma, gastroscopic biopsy in differential diagnosis of (ab), 147
emphysematous, 15
giant hypertrophic, simulating malignant disease (ab), 684
Gastrointestinal tract, course in roentgenology of, 474
effect of combined sympathectomy and vagectomy on (ab), 146
upper, cytological study of sediment in (ab), 314
Gastroscopic biopsy in differential diagnosis of gastritis and carcinoma (ab), 147
Genitourinary tract, congenital anomalies of, as cause of obscure disease (ab), 517
tuberculosis of (ab), 841
Georgia Radiological Society, 134
Goiter, intrathoracic, surgical management and roentgen appearance (ab), 492
mediastinal (ab), 312
Gold 198, localization of radioactivity of (ab), 540
radioactive colloidal, use of, in pleural effusions and ascites associated with malignancy, 413
Granuloma, eosinophilic, of stomach and small intestine (ab), 149
eosinophilic, with multiple osseous and soft tissue lesions in adult (ab), 323
nonspecific, of rectum and sigmoid colon (ab), 686
Grenz rays, therapy of ocular lesions by, 38
Gynecological pathology, urological disorders related to and clinically simulating (ab), 518

Hair, number of entities inactivated by roentgen rays in greying of (ab), 343
Hand-Schüller-Christian disease (ab), 328
syndrome treated with cortisone (ab), 540
Harvard Public-health Chest Clinic (ab), 995
Hashimoto's struma (ab), 673
Health training program, radiological, 474
Heart, angiocardiography in localization of foreign bodies in (ab), 510
catheterization, right, myocardial damage following inadvertent deep cannulation of coronary sinus during (ab), 676
catheterization, roentgen aspects of, 610
changes in configuration of ventricular chambers during cardiac cycle (ab), 145
chronic compression of (ab), 1002
disease, bizarre pulmonary manifestations in (ab), 495
disease case finding by means of 70 mm. photofluorographic films (ab), 677
disease case finding, screening tests in mass surveys and their use in (ab), 677
disease, congenital, transverse laminagraphy in (ab), 495
disease, detection of, in mass chest roentgen survey for tuberculosis case-finding (ab), 1005
disease, detection of unsuspected, in photofluorographic chest surveys (ab), 510
disease of unknown etiology (ab), 509
disease, rheumatic, and rheumatic fever (ab), 1003
diverticulum of left ventricle of (ab), 677
failure, congestive, roentgen aspects of (ab), 1002
human, interarterial coronary anastomoses in (ab), 1002
pericardial cysts, 584
relation between anthropometric index and transverse cardiac diameter in appraising size of (ab), 498
roentgen diagnosis of pericardial effusion (ab), 497
roentgen methods in diagnosis of aneurysm of (ab), 1001
shape and body build (ab), 509

technique for roentgenography of (ab), 868
value of roentgen demonstration of valvular calcifications (ab), 510
Hemangioma, alleged retardation of growth of left scapula following contact roentgen therapy of (ab), 530
cavernous, of bladder (ab), 518
cavernous, treatment of (ab), 850
Hemangiomatosis of bone, widespread (ab), 696
Hematoma, subdural optochiasmatic (ab), 490
Hemiplegia of internal carotid system (ab), 1000
Hemolymphochyluria due to filariasis, radiation therapy of (ab), 851
Hemolysis, roentgen, contribution to biological effect of ionizing radiations (ab), 867
Hemoperitoneum of tubal pregnancy, roentgenography in (ab), 837
Hemorrhage, spontaneous subarachnoid, in intradural tumors of lumbar sac (ab), 989
spontaneous subarachnoid, occurring in non-eclamptic pregnancy (ab), 516
Henoch's purpura, roentgen diagnosis (ab), 836
Hereditary factors in sutural pattern of skull (ab), 673
Hernia, diaphragmatic (ab), 833
diaphragmatic, with severe anemia after trans-abdominal vagotomy (ab), 511
hiatus, complications and surgical treatment of (ab), 493
hiatus, sliding, 754
Herniation, early gastric, at esophageal hiatus, diagnosis of (ab), 148
of lung in cervical region (ab), 141
Hibernation, effect of, upon survival time following whole body irradiation in marmot (ab), 343
Hip joint arthrography, 736
technique for arthrography of, 107
traumatic dislocations of (ab), 692
Histoplasmosis and malignant lymphoma (ab), 501
benign, in siblings (ab), 504
Hodgkin's disease, clinical experience with nitrogen mustard in (ab), 328
lymphosarcoma and reticulum cell sarcoma, symposium on (ab), 329
marital, review of familial incidence and etiological factors (ab), 849
quantitative evaluation of contribution of nitrogen mustard to therapy of (ab), 864
Hormone therapy, steroid, in mammary carcinoma, 954
Horn, temporal, of lateral ventricle, arteriographic visualization of choroid plexus of, 403
Hospital physics activities, survey of (ab), 350
practice, general cerebral arteriography in (ab), 490
radioisotope hazards and protection in (ab), 856
Humerus, prolonged traumatic arterial spasm after supracondylar fracture of (ab), 155
pseudoarthroses of (ab), 843
traumatic deformities of head of, following dislocations of shoulder joint (ab), 690
Hydrogen peroxide formation in water exposed to ionizing radiations (ab), 346
Hydronephrosis, normal intravenous pyelograms in presence of (ab), 688
Hyperostosis, infantile cortical (ab), 842
Hyperparathyroidism, primary, simulating sarcoidosis (ab), 993
Hypersensitivity, pantopaque meningitis due to (ab), 841
Hypertension, portographic study of syndrome of (ab), 847
pulmonary, and coronary sclerosis (ab), 498
Hyperthyroidism, problem of dosage in treatment of, with radioiodine (ab), 708
treatment of patients with, by I^{131} (ab), 166
radioactive iodine therapy of (ab), 707
Hypopituitarism in first cousins (ab), 989
Hysterectomy, radical, with bilateral pelvic lymph node dissections (ab), 516

I^{131}, distribution of, in tissue obtained at necropsy or surgical operation (ab), 337
for determination of abnormal thyroid morphology, 963
labeled thyroid compounds, metabolic studies with (ab), 536
pathological effects and radioautographic localization of, in humans (ab), 338
uptake by human thyroid, comparison of single G-M tube method and multitube method of assaying (ab), 539
Ileocecal valve, roentgenological examination and evaluation of, 171
Indian Radiological Association, 985
Induratio penis plastica (ab), 689
Industries, ball-clay and china-clay, silicosis in (ab), 1005
Infancy, arteriosclerosis in (ab), 849
epitubercular processes in (ab), 504
esophageal ulcer in, 634
Infants, newborn, roentgenological "double contour" effect in long bones of (ab), 842
newborn, significance of intra-abdominal calcification in, 395
premature, clinical value of roentgen diagnosis in interstitial pneumonia of (ab), 501
retroperitoneal teratomas in (ab), 316
Infection, influence of, on hematological effects and mortality following mid-lethal roentgen irradiation (ab), 340
Infections, chronic bone, in Africans (ab), 696
Injuries, acute radiation, in man (ab), 535
due to thorotrast (ab), 543
irradiation, in female pelvis, cause, incidence and treatment of, 779
Inter-American Congress of Radiology, Fourth, 134

International Congress of Radiology, Seventh, 1953, 828
Intervertebral disc, backache and its relation to ruptures of (ab), 691
herniated, in lumbar region, abrodil myelography in (ab), 155
protruded cervical, roentgen findings in (ab), 690
roentgenographic visualization of (E), 291
technique, indications and evaluation of normal and abnormal, by discography, 552
Intestinal decompression tubes, swallowed (ab), 316
Intestine, cellular dynamics in mucosa of (ab), 860
cysts of (ab), 317
gas cysts of, with pneumoperitoneum (ab), 836
large, cancer of (ab), 837
physiological aspects of obstruction of (ab), 514
small, and stomach, eosinophilic granuloma of (ab), 149
small, benign tumors of (ab), 317
small, mucosal relief study of (ab), 836
small, primary malignant epithelial tumors of (ab), 150
small, roentgen appearance of, in tuberculous peritonitis before and after streptomycin therapy, 887
trichobezoar as cause of obstruction of, in young child (ab), 513
volvulus of, precipitated by lead poisoning (ab), 319
Intracranial lesions, radioactive isotopes in localization of (ab), 539
Intussusception (colocolic) with spontaneous extrusion of intussusceptum, 198
duodenojejunal, due to lipoma (ab), 150
Intussusceptum, intussusception (colocolic) with spontaneous extrusion of, 198
Iodine fractions, blood, changes in, and radioactivity under therapy (ab), 858
radioactive, as adjunct to surgical management of diseases of thyroid (ab), 536
radioactive, dosage with, in treatment of hyperthyroidism (ab), 708
radioactive, effects of certain antithyroid drugs on uptake of, by frog thyroid (ab), 170
radioactive, exploration of cancer of thyroid by means of (ab), 857
radioactive, function and rate of uptake of, in thyroid gland (ab), 166
radioactive inorganic, evaluation of conversion of, to protein-bound iodine as diagnostic aid in thyroid dysfunction (ab), 857
radioactive, limitations and indications in treatment of cancer of thyroid with (ab), 538
radioactive, production of experimental cretinism in dogs by administration of (ab), 857
radioactive, studies with, in thyroiditis (ab), 539
radioactive, study and treatment of 119 cases of carcinoma of thyroid with (ab), 708
radioactive, therapy of hyperthyroidism (ab), 707
radioactive, thyroid carcinoma with multiple metastases and pathological fracture successfully treated with (ab), 853
radioactive, tracer dose of, in diagnosis of thyroid disease (ab), 538
radioactive, tracer studies with, after total thyroidectomy (ab), 536
radioactive, tracer studies with, in thiocyanate myxedema (ab), 858
radioactive, treatment of patients with hyperthyroidism by (ab), 166
radioactive, uptake of, by fetal mouse thyroid and resultant effects in later life (ab), 339
radioactive, use of studies with, in congenital thyroid aplasia (ab), 338
Irradiation damage, severe, of lung, pneumonectomy for (ab), 849
high voltage cathode-ray, low temperature sterilization of organic tissue by (ab), 347
injuries in female pelvis, cause, incidence and treatment of, 779
lethal, of mice with high doses of roentgen and gamma rays (ab), 346
long-continued whole body gamma, of mice, histological effects of (ab), 870
roentgen, mortality in rats, inability of thiourea to modify (ab), 170
Ischiofemoral arthrodesis by posterior approach (ab), 156
Isodose surface, flat, of roentgen-ray intensity, non-uniform filter to produce, 950
Isotopes, radioactive, diagnostic use of, 421
radioactive, in palliative management of carcinomatosis of pleura (ab), 854
radioactive, evaluation of, as adjunct to surgical diagnosis and therapy (ab), 706
radioactive, evaluation of mapping technique with, in surgery of brain tumors (ab), 337
radioactive, in localization of intracranial lesions (ab), 539
radioactive, practical aspects of, in relation to medical treatment (ab), 336

James Picker Foundation, fellowships in radiological research supported by, 829
Jejunum, diverticulosis of (ab), 315
Joint tumor, malignant, rare form of (ab), 159

Karshner, Rolla George, 1888–1952, obituary, 976
portrait, 976
Kidney, and ureter, new growths of (ab), 838
influence of ingested ice water on function of, 104
puncture, diagnostic, in cysts and tumors, 209
serial aortography in surgical diseases of (ab), 840

solitary cyst of, and its relation to renal tumor (ab), 839
solitary pelvic (ab), 153
tumors of, in children (ab), 839
tumors, radiotherapy in treatment of (ab), 839
Kidneys, method of demonstration function of, by roentgenograms (ab), 517
visualization of, by retroperitoneal pneumography, 391
Kilovoltage, optimum, selection of, for dental roentgenography (ab), 169
Klippel-Feil syndrome, clinical and roentgenological manifestations of, 369
Knee joint, resection of, in tuberculosis (ab), 845
joint, unusual case of tuberculosis of (ab), 846
pneumoarthrograms of (ab), 525
Kymography, roentgen, differential diagnosis of pulmonary congestion and pulmonary hyperemia by (ab), 507
roentgen, localization by, of intrathoracic foreign bodies, 216
Kyphosis juvenilis Scheuermann, occupational disorder (ab), 844

Laminagraphy, roentgen reticular appearance of perirenal fat tissue in extraperitoneal pneumoabdomen and (ab), 835
studies of gallbladder and its pathways by (ab), 313
study by, of para-aortic hypertranslucencies (ab), 508
three dimensional, retroperitoneal insufflation associated with (ab), 682
transverse, in congenital heart disease (ab), 495
Land method of film processing in roentgenology, application of (ab), 865
Larynx, cancer, radiotherapy in (ab), 161
cancer, roentgen therapy of (ab), 162; (ab), 163
carcinoma, roentgen therapy of (ab), 161
functional results and permanence of cure following roentgen therapy of intralaryngeal carcinoma (ab), 163
influence of radiology in diagnosis and treatment of intrinsic carcinoma of (ab), 703
intrinsic and extrinsic tumors, biological problems in roentgen therapy of (ab), 162
new method of localizing areas of, for irradiation (ab), 868
Lead poisoning, intestinal volvulus precipitated by (ab), 319
Legg-Perthes disease, treatment in (ab), 156
Lesions, extrinsic, roentgenographic demonstration of alterations of duodenal loop by, 764
Letterer-Siwe disease (ab), 849
Leukemia, childhood, morphologic basis for roentgen changes in (ab), 528
chronic, life span of red blood cell in (ab), 527
myeloid, treatment of, by radioactive phosphorus (ab), 339
tracer studies with C^{14}-labeled nitrogen mustard in normal and mice with (ab), 339
Leukemias of children, ACTH and cortisone therapy in (ab), 168
Lingula, roentgenographic findings in lesions of (ab), 144
Lipoma, duodenojejunal intussusception due to (ab), 150
of bronchus and lung (ab), 144
of corpus callosum (ab), 140
Liposarcoma of mediastinum (ab), 503
primary, of mediastinum (ab), 502
Linea innominata of skull, its anatomical basis and significance in diagnosis of tumors of orbit (ab), 489
Liver, effect of single massive doses of roentgen radiation upon (ab), 543
possibilities of angiography of (ab), 697
roentgen demonstration of venous circulation in (ab), 698
Localization, roentgen kymographic, of intrathoracic foreign bodies, 216
Löffler's syndrome, report of cases in twins (ab), 334
Lung, and bronchus, lipoma of (ab), 144
atelectasis of right middle lobe of (ab), 996
circulatory failure in metastatic carcinoma of (ab), 999
cysts in childhood, origin of (ab), 998
function, separate, new method of determining (ab), 678
herniation of, in cervical region (ab), 141
lower, aberrant systemic arteries to (ab), 998
pneumonectomy for severe irradiation damage of (ab), 849
recurrent thrombophlebitis in obscure malignant tumor of (ab), 680
tissue, effect of decreasing amount of, on right ventricular pressures in animals (ab), 343
traumatic carcinoma of (ab), 680
uremic (ab), 142
Lungs, bronchopulmonary segments (ab), 994
bizarre manifestations in, in heart disease (ab), 495
cancer, angiocardiographic findings in (ab), 1006
cancer, early diagnosis and treatment of (ab) 505
carcinoma, roentgen diagnosis of intrathoracic lymph node metastases in (ab), 499
carcinosarcoma of (ab), 500
changes in, related to cardiospasm (ab), 496
complications in, of acute bulbar poliomyelitis (ab), 997
complications in, of cardiospasm (ab), 495
congenital cystic disease of, associated with anomalous arteries (ab), 1003
congestion and hyperemia of, differential diagnosis by roentgen kymography (ab), 507
embolism of, experimental angiocardiographic study, 627

function tests in surgery of (ab), 507
resections of, for metastatic lesions (ab), 500
roentgen manifestations of Queensland fever in (ab), 1004
segments of, and pneumonias of segments (ab), 995
solitary necrosis of (ab), 142
terminal bronchiolar or "alveolar cell" of (ab), 499
use of ACTH and cortisone in treatment of post-irradiation reaction in (ab), 541
Lymph nodes, bilateral pelvic dissections, radical hysterectomy with (ab), 516
intrabronchial rupture of (ab), 499
intrathoracic, roentgen diagnosis of metastases of, in carcinoma of lung (ab), 499
metastatic pelvic involvement, effect of radiation on, in carcinoma of cervix (ab), 533
tuberculous, atelectasis of right middle lobe resulting from perforation of, into bronchi (ab), 996
Lymphogranuloma, medical treatment of (ab), 330
pathologic anatomy of (ab), 329
radiation therapy of (ab), 331
Lymphoid tumor, inhibition of development of, by shielding and partial body irradiation of mice (ab), 867
Lymphoma, malignant, and histoplasmosis (ab), 501
Lymphomas of children, ACTH and cortisone therapy in (ab), 168
Lymphosarcoma, Hodgkin's disease and reticulum cell sarcoma, symposium on (ab), 329
medical treatment of (ab), 330
pathologic anatomy of (ab), 329
radiation therapy of (ab), 331
skeletal changes in, 570

Malformation, Arnold-Chiari (ab), 988
Malignancy of breast, rotational scanning of, with supervoltage radiation, 435
use of radioactive colloidal gold in ascites associated with, 413
Malignant disease, chemotherapy in treatment of (ab), 327
giant hypertrophic gastritis simulating (ab), 684
refresher course on, 474
Malononitrile, protection of mice against lethal dose of roentgen rays by (ab), 866
Manchester system, radium treatment of cancer of uterine cervix by, 272
Mandible, serial study of growth of, after removal of condyle in macaca rhesus monkey (ab), 869
Measurements, direct radiation, detection of faulty roentgenoscopic technique by, 809
precise, of depth dose, direct current amplifier recording system for, 788
Mediastinitis following foreign body perforation of cervical esophagus (ab), 1008
emphysema of, occurring with therapeutic pneumoperitoneum (ab), 503
liposarcoma of (ab), 503
phlebography of region of (ab), 993
primary liposarcoma of (ab), 502
tuberculomas of (ab), 674
Medical problems in radiological defense (ab), 864
research fellowships, 829
Medicine, modern, place of American Radium Society in progress of, 545
use of radioactive gallium in (ab), 859
Mega-esophagus, physiologic operation for (ab), 494
Melanoma, malignant (ab), 693
of temple, jacksonian epilepsy after high dosage Chaoul contact irradiation of (ab), 702
Melanosarcoma, primary, of esophagus (ab), 993
Melorheostosis, scleroderma and (ab), 157
Meningitis, pantopaque, due to hypersensitivity (ab), 841
tuberculous, application of radioactive sodium to diagnosis of (ab), 855
Metabolism of N^{15}-labeled-dimethylaminoazobenzene in rats (ab), 871
Metal, fusible, use of, as radiopaque contrast medium and in preparation of anatomical castings, 406
Metaphysis, bone growth, with respect to zones and transverse lines of increased density in, 709
Metastases, epidural, in lumbosacral spinal canal, myelographic diagnosis of, 730
evaluation of present classification of cancer of breast based on frequency of (ab), 852
intracranial, of sarcoma botryoides (ab), 517
intrathoracic lymph node, in carcinoma of lung roentgen diagnosis (ab), 499
late, to respiratory and digestive systems, from epidermoid carcinoma of cervix uteri (ab), 687
pulmonary resections for (ab), 500
Metatarsus, union of epiphyses of, 37
Microcolon, congenital (ab), 318
Microlithiasis alveolaris pulmonum, disease entity, clinical-roentgenological contribution to (ab), 997
Microradiography, application of, to study of vascular anatomy of certain organs of rabbit (ab), 169
Minifilm program, five year, evaluation of, 240
Minnesota Radiological Society, 984
Moniliasis, bronchopulmonary (ab), 143
Morbus coeruleus, surgical treatment (ab), 509
cordis, congenital, ectodermal dysplasia and achondroplasia (ab), 323
Morgagni's syndrome and brain tumors (ab), 490
Morquio-Brailsford disease (ab), 324
Mucoid impaction of bronchi (ab), 143
Mucosa, gastric, asymptomatic prolapse of (ab), 512
gastric, prolapse of, into duodenal bulb (ab), 512

gastric, prolapse of, into duodenum (ab), 513
of small intestine, relief study of (ab), 836
prepyloric, prolapse of (ab), 314
Mucous membrane of stomach, neurovascular mechanism of (ab), 833
Mustard, aromatic nitrogen, in reticuloses (ab), 328
C^{14}-labeled nitrogen, tracer studies with, in normal and leukemic mice (ab), 339
nitrogen, as adjunct to radiation in management of bronchogenic cancer (ab), 340
nitrogen, clinical experience with, in Hodgkin's disease (ab), 328
nitrogen, effects of intra-arterial administration of (ab), 861
nitrogen, quantitative evaluation of contribution of, to therapeutic management of Hodgkin's disease (ab), 864
nitrogen, quantitative measurements of effects of, and irradiation on cellular division and differentiation (ab), 860
nitrogen, reduction of toxicity of, by cystein (ab), 340
nitrogen, treatment of bronchial asthma by means of (ab), 860
nitrogen, treatment of reticuloses by (ab), 327
Myasthenia gravis and malignant exophthalmos (ab), 851
Myelography, abrodil, in herniated disc in lumbar region (ab), 155
diagnosis by, of epidural metastases in lumbosacral spinal canal, 730
discussion on (ab), 519
pantopaque pulmonary embolism during (ab), 141
Myeloma, benign solitary, of bone, nature of (ab), 696
multiple (ab), 843
multiple, treatment of, with urethan (ab), 541
Myelomatosis, skeletal changes in, 570
Myocardium, damage to, following inadvertent deep cannulation of coronary sinus during right heart catheterization (ab), 676
Myositis ossificans complicating anterior poliomyelitis (ab), 694
occurring in poliomyelitis (ab), 701
Myxedema, thiocyanate, radioiodine tracer studies in (ab), 858

N^{15}-labeled-dimethylaminoazobenzene, metabolism of, in rats (ab), 871
Nasopharynx, primary malignant tumors of, 262
primary malignant tumors of, a correction, 664
Neck, gasometric studies in carotid-internal jugular anastomosis in (ab), 140
phlebography of (ab), 993
Necrosis, extensive irradiation, of pelvic viscera in female, partial or complete pelvic exenteration for (ab), 534
solitary pulmonary (ab), 142
Neo-iopax, and diodrast, controlled study of, for intravenous urography, 903
relationship between degree of reactions and time of intravenous injection for urography, 915
Neoplasm, role of spongy osseous tissue in dissemination of (ab), 843
Neoplasms, adrenal, calcification of (ab), 154
of kidney and ureter (ab), 838
primary, of brain, roentgen therapy of (ab), 164
testicular, radiotherapy of (ab), 853
Nephroblastoma (ab), 839
Nerve interruption, therapeutic phrenic, linear basal atelectasis following (ab), 1009
Neurilemmoma, gastric (ab), 684
Neuroblastoma, roentgen therapy of (ab), 322
Neurologic diseases, indirect irradiation of (ab), 706
Neurovascular mechanism of mucous membrane of stomach (ab), 833
New England Roentgen Ray Society, 299
New York, Northeastern, Radiological Society, 985
New York Roentgen Society, 475
Nocardiosis (ab), 504
Nodules, thyroid (ab), 492
Nuclear disintegration, uses of, in diagnosis and treatment of brain tumor (ab), 858

Obstetric and gynecologic patients, genital cytology in (ab), 320
Obstruction, congenital, of transverse colon (ab), 686
intestinal, physiological aspects of (ab), 514
intestinal, trichobezoar as cause of, in young child (ab), 513
superior vena cava, diagnosis and treatment of (ab), 498
Occlusion, chronic intermittent arteriomesenteric, of duodenum (ab), 149
Ohio State Radiological Society, 985
Oklahoma State Radiological Society, 299
Ollier's disease (ab), 842
Operations, midforceps, indications for and results of, based on pelviroentgenography and progress of labor (ab), 151
Ophthalmology, indications for roentgen therapy in, 38
Orbit, tumors of, anatomical basis and its significance of linea innominata of skull in diagnosis of (ab), 489
Oregon Radiological Society, 985
Os calcis, normal, pseudo-cystic triangle in (ab), 843
Ossification, centers of, in skeleton, 922
Osteochondrodystrophia deformans (ab), 324
Osteochondropathy of anterior inferior iliac spine (ab), 523
Osteogenesis imperfecta, hyperplastic callus in (ab), 693
therapeutic acceleration of bone age in (ab), 521
Osteomyelosclerosis, skeletal changes in, 570

Osteopetrosis (ab), 521
Osteitis deformans of vertebrae, compression of spinal cord by (ab), 522
Ovary, carcinoma, clinical and pathological evaluation (ab), 335
carcinoma, end results in treatment of, with surgery and deep roentgen irradiation (ab), 853
malignancy of special tumors of (ab), 515
Oxygen, retroperitoneal pneumography by injection of, into presacral space, 391

Pacific Roentgen Society, 299
Paget's disease, skeleton in (ab), 695
skull in (ab), 489
studies of (ab), 158
Pan-arthrodesis for paralytic flail foot (ab), 694
Pancreas, carcinoma of tail of (ab), 513
in children, new method of roentgen examination of (ab), 834
roentgen diagnosis of disease of, by appearance and position of barium filled duodenal loop, 764
Panhysterectomy in treatment of carcinoma of uterine cervix (ab), 165
Pantopaque meningitis due to hypersensitivity (ab), 841
pulmonary embolism during myelography (ab), 141
Paraplegia, spastic, in late adult life (ab), 529
Parasitic duodenopathies, various aspects of (ab), 681
Parotid gland, single portal massive dose roentgen therapy for certain cancers of (ab), 852
Pedicle, roentgen demonstration and significance of, in polypoid tumors of alimentary tract, 894
Pelviroentgenography, midforceps operations based on (ab), 151
Pelvis, different routes of exploration of, by means of phlebography (ab), 848
dimensions of, in eutocia and dystocia (ab), 687
female, cause, incidence and treatment of irradiation injuries in, 779
female, value of cross-section diagrams in delivering accurate roentgen therapy into (ab), 165
fictitious mass in (ab), 515
Penis, Peyronie's disease of (ab), 689
Perforations, esophageal, 183
Periarthritides, radiotherapy of (ab), 534
Periarthritis, radiotherapy of (ab), 851
Pericarditis calculosa in childhood (ab), 498
chronic constrictive (ab), 1002
Pericardium, cysts of, 584
Periodontal lesions, radiopaque materials in roentgenographic interpretation of (ab), 489
Peritonitis, tuberculous, roentgen appearance of small intestine in, before and after streptomycin therapy, 887
Peyronie's disease (ab), 689
Phaeochromocytomata in children (ab), 333
Phalanges, secondary carcinoma of (ab), 844
Pharynx, radiation cancer of (ab), 703
Philadelphia Roentgen Ray Society, 134
Phlebography, different routes of pelvic exploration by means of (ab), 848
of shoulder, neck and mediastinal regions (ab), 993
pelvic, by transosseous route (ab), 699
pelvic, by uterine route (ab), 848
portal, in exploration of hepatosplenic diseases (ab), 332
Phosphatase, alkaline, effect of abnormal metabolic states upon histochemical distribution of, in tibia of albino rat (ab), 543
Phosphorus, radioactive, evaluation of therapy with, in primary polycythemia (ab), 167
radioactive, in tissues, autoradiographic studies of nonuniform distribution of (ab), 537
radioactive, in treatment of myeloid leukemia (ab), 339
radioactive, radiation therapy of polycythemia with (ab), 166
radioactive, studies on blood-brain barrier with (ab), 167
radioactive, study of early phases of calcification in bone with (ab), 854
Photofluorography, detection of unsuspected heart disease in chest surveys by (ab), 510
heart disease case findings by means of 70 mm. films (ab), 677
rapid chest, method of, 457
secondary radiation limits in (ab), 344
Physical aspects of teleradium therapy (ab), 351
Physics activities, hospital, survey of (ab), 350
Pittsburgh Roentgen Society, 664
Placenta, localization of, by means of radioactive sodium (ab), 152
previa, diagnosis of, without use of contrast media, 255
previa, value of roentgenological means in diagnosis of (ab), 151
Plasmocytoma, stilbamidine therapy of (ab), 862
Pleura, radioactive isotopes in palliative management of carcinomatosis of (ab), 854
Pneumatosis cystoides intestinalis (ab), 317
Pneumoarthrograms of knee (ab), 525
Pneumoconiosis, graphite (ab), 500
Pneomoencephalography, second-day, 749
study by, of cerebrospinal fluid absorptive block mechanisms (ab), 321
technique and results in (ab), 988
Pneumography, presacral perirenal (ab), 519
retroperitoneal, by injection of oxygen into presacral space, 391
Pneumomediastinum by means of retropneumoperitoneum (ab), 674
Pneumonectomy for severe irradiation damage of lung (ab), 849

Pneumonia, interstitial, of premature infants, clinical value of roentgen diagnosis of (ab), 501
lipoid (ab), 678
massive tuberculous, management of (ab), 141
of segments of lung (ab), 995
primary atypical syndrome (ab), 505
Salmonella senftenberg (ab), 504
Pneumoperitoneum and pneumoretroperitoneum (E), 655
gas cysts of intestine with (ab), 836
therapeutic, mediastinal emphysema occurring with (ab), 503
Pneumopyelography (ab), 689
Pneumoretroperitoneum and pneumoperitoneum (E), 655
Poliomyelitis, acute bulbar, pulmonary complications of (ab), 997
anterior, myositis ossificans complicating (ab), 694
myositis ossificans occurring in (ab), 701
Polyarthrosis, rheumatic, roentgen serial vasography of periarticular vascular apparatus in (ab), 332
Polycythemia, life span of red blood cell in (ab), 527
primary, evaluation of radiophosphorus therapy in (ab), 167
radiation therapy of, with radioactive phosphorus (ab), 166
Pomeroy, Lawrence A., Cleveland Academy of Medicine honors, 299
Portography by means of transparietal splenic puncture (ab), 846
study of syndrome of portal hypertension by (ab), 847
Pregnancy, noneclamptic, spontaneous subarachnoid hemorrhage occurring in (ab), 516
tubal, roentgenography in hemoperitoneum of (ab), 837
Priodax, comparison study of new cholecystographic medium with, 900
Procaine, relaxation of pyloro-duodenal spasm with (ab), 1013
Prolapse, asymptomatic gastric mucosal (ab), 512
of gastric mucosa into duodenal bulb (ab), 512
of gastric mucosa into duodenum (ab), 513
of prepyloric mucosa (ab), 314
Protection against hazards of radioisotopes in hospital (ab), 856
design, roentgen-ray (E), 972
of mice against lethal dose of roentgen rays by cyanide, azide and malononitrile (ab), 866
radiological health, 984
Pseudarthrosis, supraglenoidal (ab), 689
Pseudoarthroses of humerus (ab), 843
"Pseudotumor cerebri," thrombosis of dural venous sinuses as cause of (ab), 488
Purpura, Henoch's, roentgen diagnosis (ab), 836
of urogenital tract (ab), 320
Putts, B. Swayne, 1882–1952, obituary, 469
Pyelograms, intravenous, compression belt to improve (ab), 169
normal intravenous, in presence of hydronephrosis (ab), 688
Pyelography. See Pneumopyelography (ab), 689
Pylorospasm, simple method of overcoming, 663

Queensland fever, roentgen pulmonary manifestations of (ab), 1004
Quimby, Edith H., award to, 475

Radiation cancer of pharynx (ab), 703
chemistry in relation to radiobiology (ab), 345
chemistry of organic halogen compounds (ab), 346
chemistry of water, elementary processes in, and implications for radiobiology (ab), 345
comparative study of various methods of, as adjuncts to surgery in carcinoma of corpus uteri, 770
dosage, personal diary of (ab), 542
doses from diagnostic roentgen studies (ab), 341
effects on normal endocervix and on adenocarcinomas of cervix (ab), 533
hazard of (ab), 874
injuries, acute, in man (ab), 535
ionizing, dependence of human skin reaction produced by, upon type of radiation (ab), 341
limits, secondary, in photofluorography (ab), 344
measurements, direct, detection of faulty roentgenoscopic technique by, 809
sickness, clinical study of, 275
sickness, treatment of (ab), 850
sickness, treatment of, with ACTH (ab), 861
supervoltage, rotational scanning of breast malignancies with, 435
therapy, radiocobalt as plastic preparation for (ab), 539
total body roentgen, experimental procedures for simultaneous exposure of large numbers of animals to (ab), 170
Radiations, ionizing, biochemical effects of (ab), 346
ionizing, biological effect of (ab), 867
ionizing, hydrogen peroxide formation in water exposed to (ab), 346
ionizing, production of free radicals in water consequent on absorption of (ab), 346
two, of different ion density, 30-day LD-50 of (ab), 870
Radioautography, application to, of method for embedding undecalcified bone for histologic sectioning (ab), 165
chest, 355
localization of I^{131} by, in humans (ab), 338
studies with, of nonuniform distribution of radioactive phosphorus in tissues (ab), 537
tritium in (ab), 856
Radiobiology, elementary processes in radiation chemistry of water and implications for (ab), 345

radiation chemistry in relation to (ab), 345
Radiodiiodotyrosine, distribution and excretion of, in human beings (ab), 536
Radioisotopes, courses in techniques of (ab), 663
for cancer program, 300
hazards of, and protection in a hospital (ab), 856
Radiolaryngometric method, new (ab), 868
Radiological Conference, Mid-Winter, sponsored by Los Angeles Radiological Society, 984
defense, medical problems in (ab), 864
health protection, 984
health training program, 474
research, fellowships in, 829
Society of Greater Cincinnati, 135
Society of New Jersey, 985
Society of North America, notice of 1952 meeting, 298
Radiology, general practice of (ab), 529
Radiopaque element for surgical sponges, new design of (ab), 169
media in roentgenographic interpretation of periodontal lesions (ab), 489
Radiosensitivity of normal and neoplastic tissue, histochemical interpretation of (ab), 344
Radium, and cobalt 60, comparative effects of, when implanted interstitially in skin of rabbits, 89
application, clinical results following different methods of, used in treatment of cervical cancer from 1921 to 1947, 925
technique, intracavitary, in treatment of cancer of cervix uteri, 47
therapy, interstitial, in treatment of cancer of cervix uteri, 58
therapy of cancer of cervix uteri, physical approach to design of applicators in, 935
therapy of carcinoma of cervix uteri, 72
Recording system, direct current amplifier, for precise measurement of depth dose, 788
Rectum, carcinoma, medial deviation of ureters complicating (ab), 319
nonspecific granuloma of (ab), 686
Renovasography, peroperative (ab), 688
Resection, subtotal gastric, afferent loop studies after (ab), 683
Respiratory tract, upper, single portal massive dose roentgen therapy for certain cancers of (ab), 852
Reticulo-endotheliosis (ab), 328
non-lipoid, familial incidence of (ab), 849
of children, treatment of, with roentgen rays (ab), 329
Reticuloses, aromatic nitrogen mustards in (ab), 328
chemotherapy in treatment of (ab), 327
clinical aspects of (ab), 325
cutaneous manifestations of (ab), 327
nitrogen mustard therapy in (ab), 327
pathology of (ab), 324
results of roentgen treatment of (ab), 326
roentgen diagnosis of (ab), 325
some observations on, and treatment by roentgen radiation (ab), 326
treatment of, by roentgen radiation (ab), 325
Retroperitoneal insufflation associated with three dimensional laminagraphy (ab), 682
Retropneumoperitoneum and tomography, roentgen reticular appearance of perirenal fat tissue in (ab), 835
pneumomediastinum by means of (ab), 674
Rings, aortic, diagnosis and treatment of (ab), 507
Rochester (New York) Roentgen Ray Society, 135
Rocky Mountain Radiological Society, 664
Roentgen examination and evaluation of ileocecal valve, 171
irradiation, effect of, on thyroid function in rats (ab), 347
irradiation, mid-lethal, influence of infection on hematological effects and mortality following (ab), 340
irradiation, therapeutic, excretion of 17-ketosteroids during (ab), 535
irradiation, whole body, effect of hibernation upon survival time following, in marmot (ab), 343
magnification, direct (ab), 344
radiation, effect of single massive doses of, upon liver (ab), 543
-ray intensity, non-uniform filter to produce flat isodose surface of, 950
-ray protection design (E), 972
rays, danger of exposure to, by "blind-nailing" technique (ab), 524
rays, lethal irradiation of mice with high doses of (ab), 346
rays, number of entities inactivated by, in greying of hair (ab), 343
rays, protection of mice against lethal dose of, by cyanide, azide and malononitrile (ab), 866
rays, soft, effect of, on rabbit skin, 801
rays, stray, from electron beam instruments and some biological implications (ab), 874
rays, 22 mev., physical aspects of treatment of cancer by (ab), 348
stimulation, problem of, 281
survey, evaluation of a five year minifilm program, 240
therapy, accurate, value of cross-section diagrams in delivering, into female pelvis (ab), 165
therapy dose computing device, especially for rotation therapy with high energy (2 mev.), 797
therapy in ophthalmology, indications for, 38
therapy in treatment of cancer of cervix uteri, 63

therapy, massive, control of inoperable oral cancer with (ab), 702
therapy, prophylactic, osteogenic sarcoma following (ab), 336
therapy, supervoltage rotational, physical and clinical aspects of (ab), 342
timers, impulse counter for checking (ab), 342
treatment, dosage estimation in (ab), 352
Roentgenograms, causes of drying marks on, and prevention (ab), 542
chest, correlation of postmortem pathological observation with (ab), 312
enlargements of, in diagnostic roentgenology (ab), 865
full-sized original, new film projector for (ab), 168
method of demonstrating kidney function by (ab), 517
serial chest, evaluation of role of, in estimating progress of disease in patients with pulmonary tuberculosis (ab), 312
Roentgenography at 200 kv. (ab), 169
chest and heart, technique of (ab), 868
clinical importance of lesions undetected in mass survey of chest by (ab), 313
color in (ab), 354
dental, selection of optimum kilovoltage for (ab), 169
in rapid sequence, preliminary report on (ab), 864
of skull, 565
Roentgenology, application of Land method of film processing in (ab), 865
diagnostic, color as teaching aid for (ab), 169
diagnostic, roentgenographic enlargements in (ab), 865
gastrointestinal, course in, 474
intraoral, paralleling technique for (ab), 542
mass, of chest in United States (ab), 996
Roentgenoscopic screen intensifier, Johns Hopkins (ab), 542
Roentgenoscopy, adaptometer for preparation for (ab), 868
detection of faulty technique in, by direct radiation measurements, 809
perforation of duodenal ulcer during (ab), 149
Rotation scanning of breast malignancies with supervoltage radiation, 435
therapy, supervoltage, physical and clinical aspects of (ab), 342
therapy with high energy (2 mev.), roentgen therapy dose computing device for, 797
Rupture, intrabronchial, of lymph nodes (ab), 499
of spleen, roentgen diagnosis (ab), 515
spontaneous, of esophagus (ab), 140; (ab), 494
traumatic retroperitoneal, of duodenum (ab), 315

Saint's triad: hiatus hernia, diverticulosis coli and gallstones (ab), 149
Salmonella senftenberg pneumonia (ab), 504
Sarcoid, Boeck's, causes of death in (ab), 859
Boeck's, cortisone therapy of (ab), 862
Sarcoidosis, cortisone therapy in (ab), 861
favorable response of, to cortisone treatment (ab), 862
primary hyperparathyroidism simulating (ab), 993
Sarcoma, bone, atypical forms of (ab), 695
botryoides, intracranial metastasis of (ab), 517
extraskeletal osteogenic, arising in irradiated tissue (ab), 336
of uterus (ab), 320
osteogenic, following prophylactic roentgen therapy (ab), 336
reticulum cell, lymphosarcoma and Hodgkin's disease, symposium on (ab), 329
reticulum cell, medical treatment of (ab), 330
reticulum cell, pathologic anatomy of (ab), 329
reticulum cell, radiation therapy of (ab), 331
statistical contribution to problem of (ab), 864
Scapula, left, alleged retardation of growth of, following contact roentgen therapy of hemangioma (ab), 530
Scleroderma, and melorheostosis (ab), 157
calcinosis in, 918
coronary, and pulmonary hypertension (ab), 498
multiple, and other neurologic diseases, indirect irradiation of (ab), 706
Scoliosis, idiopathic structural, two curve patterns in (ab), 156
Segments, bronchopulmonary (ab), 994
of lung and pneumonias of segments (ab), 995
Septal defect, aortic, diagnosis of, by retrograde aortography (ab), 144
Seminoma of testicle with and without metastases irradiated following semicastration (ab), 705
17-ketosteroids, excretion of, during therapeutic roentgen irradiation (ab), 535
Shock therapy, convulsive, roentgen evaluation of vertebral fractures resulting from, 247
Shoulder joint, traumatic deformities of head of humerus following dislocations of (ab), 690
phlebography of (ab), 993
Siblings, benign histoplasmosis in (ab), 504
Sigmoid, carcinoma, medial deviation of ureters complicating (ab), 319
Silicobezoar, 639
Silicosis encountered among automobile workers (ab), 679
in ball-clay and china-clay industries (ab), 1005
Sinus, coronary, roentgen visualization of (ab), 675
dural, venography of (ab), 490
Sinuses, dural venous, thrombosis of, as cause of a "pseudotumor cerebri" (ab), 488
transverse dural, angiographic demonstration of anatomic variation in position of (ab), 488
Skeleton, centers of ossification in, 922
changes in, in myelomatosis, lymphosarcoma and osteomyelosclerosis, 570

in Paget's disease (ab), 695
Skin effects of 23 mev. betatron, biological evaluation of, 644
manifestations of reticuloses (ab), 327
of rabbit, comparative effects of cobalt 60 and radium when implanted interstitially in, 89
of rabbit, effect of soft roentgen rays on, 801
reaction, produced by ionizing radiation, dependence of, upon type of radiation (ab), 341
Skull, anatomical variation of (ab), 139
hereditary factors in sutural pattern of (ab), 673
in children, digital markings in roentgenograms of (ab), 988
in Paget's disease (ab), 489
linea innominata of, anatomical basis and significance in diagnosis of tumors of orbit (ab), 489
roentgen changes in, in dystrophia myotonica (ab), 990
roentgenography of, 565
Sodium, radioactive, and cerebrospinal fluid, application to diagnosis of tuberculous meningitis and medullary compression (ab), 855
radioactive, localization of placenta by means of (ab), 152
South Carolina Radiological Society, 664
Spangler, Davis, 1892–1952, obituary, 465
portrait, 465
Spasm, pyloro-duodenal, its relaxation with procaine (ab), 1013
Sphincter of Oddi, roentgen demonstration of active emptying function of muscle of (ab), 1011.
Spinal canal, lumbosacral, myelographic diagnosis of epidural metastases in, 730
cord, compression of, by osteitis deformans, giant cell tumor and polyostotic fibrous dysplasia of vertebrae (ab), 522
Spine, anterior inferior iliac, osteochondropathy of (ab), 523
cervical, importance of, to internist (ab), 322
lumbar, technique and indications of aortography of (ab), 847
special roentgenographic techniques for lumbosacral region (ab), 690
tuberculosis of (ab), 691
Spleen, roentgen diagnosis of rupture of (ab), 515
transverse displacement of, with concomitant compression of stomach (ab), 515
Splenic puncture, transparietal, portography by means of (ab), 846
Spondylarthritis anchylopoetica, early cases of (ab), 845
Spondylolisthesis, cervical (ab), 520
Spondylosis, cervical (ab), 845
Sponges, surgical, new design of radiopaque element for (ab), 169
Steatorrhea following use of antibiotics (ab), 150
Stenosis, progressive subacute idiopathic bronchiolar of unknown cause and fatal evolution, syndrome of (ab), 503
pulmonary, electrokymographic studies in (ab), 678
Steroid hormone therapy in mammary carcinoma, 954
Steroids in cancer of breast (ab), 864
Stilbamidine therapy of plasmocytoma (ab), 862
Still's disease (ab), 525
roentgen treatment of (ab), 851
Stomach, amyloidosis, roentgen findings in, 204
and small intestine, eosinophilic granuloma of (ab), 149
carcinoma of (ab), 314
cardia, carcinoma of (ab), 993
cyst formation in relation to (ab), 683
diagnosis of early herniation of, at esophageal hiatus (ab), 148
diverticula of, 8
human, arteries, veins and arteriovenous anastomoses in (ab), 1014
neurilemmoma of (ab), 684
neurovascular mechanism of mucous membrane of (ab), 833
qualitative anatomical diagnosis in distal portion of, and duodenal bulb, on basis of roentgen examination (ab), 315
resected, roentgen examination of, by means of protein and fat barium particles (ab), 833
roentgen study of, following induced collapse (ab), 833
simple ulcer of, and carcinoma (ab), 685
thoracic, complications and surgical treatment of hiatus hernia and short esophagus with (ab), 493
transverse displacement of spleen with concomitant compression of (ab), 515
ulcer of (ab), 684
ulcer of, in German prisoners of war in Russia (ab), 1014
Stratigraphy See Laminagraphy
Streptomycin therapy, roentgen appearance of small intestine in tuberculous peritonitis before and after, 887
Strontium, radioactive, apparatus for determining bone density by means of (ab), 166
Struma lymphomatosa (ab), 673
Surgery, pulmonary, function tests in (ab), 507
Surgical diagnosis and therapy, evaluation of radioactive isotopes as adjunct to (ab), 706
Surveys, mass, screening tests in, and their use in heart disease case finding (ab), 677
Swallowing, mechanism of (ab), 991
Sympathectomy and vagectomy, effect of, on gastrointestinal tract (ab), 146
Syndrome of Barre-Lieou (ab), 845
of portal hypertension, portographic study of (ab), 847
of progressive subacute idiopathic bronchiolar stenosis of unknown cause and fatal evolu-

tion (ab), 503
"primary atypical pneumonia" (ab), 505
Syphilis of long bones in Bantu (ab), 697

Technique, "blind-nailing," danger of exposure to roentgen rays by (ab), 524
faulty roentgenoscopic, detection of, by direct radiation measurements, 809
for arthrography of hip, 107
new bronchographic, employing aerosol anesthesia, 229
paralleling, for intraoral roentgenology (ab), 542
Techniques, special roentgenographic, for lumbosacral region (ab), 690
Telepaque, new cholecystographic medium, 360
Teleradium therapy, physical aspects of (ab), 351
Tennessee Radiological Society, 299
Teratomas, retroperitoneal, in infancy and childhood (ab), 316
Testicle, radiotherapy of neoplasms of (ab), 853
seminoma of, with and without metastases irradiated following semicastration (ab), 705
Testosterone therapy of metastatic adenocarcinoma of thyroid with remission (ab), 863
Tetralogy of Fallot, electrokymographic studies in (ab), 678
Thiourea, inability of, to modify roentgen irradiation mortality in rats (ab), 170
Thoracopagus (ab), 1006
Thorax. See Chest
Thorotrast, injuries due to (ab), 543
Thrombophlebitis, recurrent, in obscure malignant tumor of lung (ab), 680
Thrombosis of dural venous sinuses as cause of "pseudotumor cerebri" (ab), 488
of internal carotid artery (ab), 1010
of internal carotid system (ab), 1000
spontaneous, of internal and common carotid arteries, angiographic diagnosis of (ab), 698
Thymus gland, carcinoma of granulomatous type (ab), 674
Thyroid compounds, I^{131} labeled, metabolic studies with (ab), 536
Thyroid gland, cancer, exploration of, by radioactive iodine (ab), 857
cancer, limitations and indications in treatment of, with radioactive iodine (ab), 538
carcinoma, in youth (ab), 537
carcinoma, treatment of, with radioactive iodine (ab), 708
carcinoma, with multiple metastases and pathological fracture, successfully treated with radioiodine (ab), 853
effect of roentgen radiation on function of, in rats (ab), 347
evaluation of conversion of radioactive inorganic iodine to protein-bound iodine as diagnostic aid in dysfunction of (ab), 857
experimental study of regeneration of, following subtotal thyroidectomy (ab), 347
fetal mouse, radioiodine uptake by, and resultant effects in later life (ab), 339
frog, effects of certain antithyroid drugs on uptake of radioactive iodine by (ab), 170
function and rate of I^{131} uptake of (ab), 166
human, comparison of single G-M tube method and multitube method of assaying I^{131} uptake by (ab), 539
human, study of behavior of tumors of, transplanted into anterior chamber of guinea pig's eye (ab), 869
Hürthle-cell cancer of (ab), 492
Hürthle cell tumors of (ab), 1003
method using I^{131} for determination of abnormal morphology of, 963
nodules of (ab), 492
radioactive iodine as adjunct to surgical management of diseases of (ab), 536
testosterone therapy of metastatic adenocarcinoma of, with remission (ab), 863
tracer dose of radioactive iodine in diagnosis of disease of (ab), 538
use of radioactive iodine studies in congenital aplasia of (ab), 338
use of radioactive isotopes in diagnosis of diseases of, 421
Thyroidectomy, subtotal, experimental study of thyroid regeneration following (ab), 347
total, radioiodine tracer studies after (ab), 536
Thyroiditis, radioiodine studies in (ab), 539
Tibia of albino rat, effect of abnormal metabolic states upon histochemical distribution of alkaline phosphatase in (ab), 543
Tinea capitis, selective, chemical epilation in treatment of, as contrasted with diffuse roentgen epilation (ab), 541
Tissue dosage, determination of (ab), 341
irradiated, extraskeletal osteogenic sarcoma arising in (ab), 336
irradiated soft, dosage in (ab), 349
normal and neoplastic, histochemical interpretation of radiosensitivity of (ab), 344
obtained at necropsy or surgical operation, distribution of I^{131} in (ab), 337
organic, low temperature sterilization of, by high voltage cathode-ray irradiation (ab), 347
soft, lesions of, in eosinophilic granuloma (ab), 323
soft, value of technique in diagnosis and treatment of head and neck tumors (ab), 345
spongy osseous, role of, in neoplastic dissemination (ab), 843
Tongue, carcinoma of, 81
Trachea, cancer, tracheographic diagnosis of (ab), 1009
unusual dilatation of, due to tuberculosis (ab), 1008
Tracheography, diagnosis of cancer of trachea by (ab), 1009

Transposition, complete, of great vessels, diagnosis of (ab), 508
complete, of main arterial stems (ab), 508
Trichobezoar as cause of intestinal obstruction in young child (ab), 513
Tritium in radioautography (ab), 856
Trochanter, great, treatment of tuberculosis of, by chemotherapeutics (ab), 863
treatment of fractures of (ab), 692
Tuberculin test, negative osseous tuberculosis with (ab), 158
Tuberculomas of mediastinum (ab), 674
Tuberculosis, bronchial obstruction in (ab), 996
case-finding, detection of heart disease in mass chest roentgen survey for (ab), 1005
common pitfalls in roentgen diagnosis of (ab), 503
fellowships in, 829
genitourinary (ab), 841
in anthracosilicosis (ab), 1005
of great trochanter, treatment by chemotherapeutics (ab), 863
of knee joint, unusual case of (ab), 846
of spine (ab), 691
osseous, with negative tuberculin test (ab), 158
pulmonary, bronchiectasis and calcification as related to bronchogenic carcinoma (ab), 996
pulmonary, bronchography as aid in planning surgical treatment of (ab), 142
pulmonary, bronchography in (ab), 679
pulmonary, evaluation of role of serial chest roentgenograms in estimating progress of disease in patients with (ab), 312
resection of knee joint in (ab), 845
unusual dilatation of trachea due to (ab), 1008
Tubes, swallowed intestinal decompression (ab), 316
Tumor, brain, uses of nuclear disintegration in diagnosis and treatment of (ab), 858
giant cell, of vertebrae, compression of spinal cord by (ab), 522
lymphoid, inhibition of development of, by shielding and partial body irradiation of mice (ab), 867
malignant joint, rare form of (ab), 159
obscure malignant, of lung, recurrent thrombophlebitis in (ab), 680
renal, solitary cyst of kidney and its relation to (ab), 839
Tumors, analogous mouse mammary dbrB and C3H, radiosensitivity of (ab), 869
benign, of small intestine (ab), 317
brain, evaluation of radioactive mapping technique in surgery of (ab), 337
cerebellopontine angle, roentgen manifestations (ab), 487
cerebral, topographic and histologic diagnosis of (ab), 989
diagnostic kidney puncture in, 209
giant cell, of bones (ab), 159
human thyroid, transplanted into anterior chamber of guinea pig's eye, study of behavior of (ab), 869
Hürthle cell, of thyroid gland (ab), 1003
intradural, of lumbar sac, spontaneous subarachnoid hemorrhage in (ab), 989
intrinsic and extrinsic, of larynx, biological problems in roentgen therapy of (ab), 162
of brain and Morgagni's syndrome (ab), 490
of head and neck, value of soft tissue technique in diagnosis and treatment of (ab), 345
of kidney, radiotherapy in treatment of (ab), 839
of orbit, anatomical basis and its significance of linea innominata of skull in diagnosis of (ab), 489
of urinary bladder, endovesical irradiation of, using radioactive cobalt (ab), 860
polypoid, of alimentary tract, roentgen demonstration and significance of pedicle in, 894
primary malignant epithelial, of small intestine (ab), 150
primary malignant, of nasopharynx, 262
primary malignant, of nasopharynx, a correction, 664
renal, in children (ab), 839
special ovarian, malignancy of (ab), 515
suprasellar, with calcification (ab), 487
Twins, monozygotic, auricular septal defect in one of (ab), 1003
report of Löffler's syndrome in (ab), 334

Ulcer, duodenal, perforation of, during roentgenoscopy (ab), 149
esophageal, in infancy, 634
gastric (ab), 684
gastric, in German prisoners of war in Russia (ab), 1014
newly perforated peptic, clinical and roentgen observations (ab), 512
peptic, in children (ab), 685
peptic, internal biliary fistula due to (ab), 685
perforated esophageal (ab), 494
perforated peptic, gas in lesser sac in, 19
primary duodenal, healing of, with later development of gastric ulcer (ab), 513
simple gastric, and carcinoma (ab), 685
Urachus, patent (ab), 840
Uremia of renal origin, pulmonary manifestations of (ab), 142
Ureter, and kidney, new growths of (ab), 838
fetal (ab), 840
Ureters, medial deviation of, complicating carcinoma of rectum and sigmoid (ab), 319
Urethan, treatment of multiple myeloma with (ab), 541
Urethra, anterior, in male, diverticula of (ab), 689
carcinoma of (ab), 518
male, primary carcinoma of (ab), 321
Urinary tract, upper, abnormal function of (ab), 688

Urogenital tract, purpura of (ab), 320
Urograms, delayed excretory, acceleration of, 104
Urography, excretory, clinical trial of urokon (ab), 153
intravenous, contrast media for, 903
relationship between degree of reactions and time of intravenous injection of neo-iopax in, 915
Urokon in excretory urography (ab), 153
Urological disorders related to and clinically simulating gynecological pathology (ab), 518
Urology award, 663
Uterus, carcinoma, comparative study of various radiation methods as adjuncts to surgery in, 770
sarcoma of (ab), 320

Vagectomy and sympathectomy, effect of, on gastrointestinal tract (ab), 146
Vagina, primary carcinoma of (ab), 334
Vagotomy, transabdominal, diaphragmatic hernia with severe anemia after (ab), 511
Vas deferens, calcification of (ab), 154
Vasography, roentgen serial, of periarticular vascular apparatus in rheumatic polyarthrosis (ab), 332
Veins, coronary, roentgen visualization of (ab), 675
Vene cava, superior, diagnosis and treatment of obstruction of (ab), 498
Venography, dural sinus (ab), 490
portal (ab), 698
Ventricle, lateral, arteriographic visualization of choroid plexus of temporal horn of, 403
Ventricles, changes in configuration of chambers of, during cardiac cycle (ab), 145
mechanics of contraction of, cinefluorographic study (ab), 146
Vertebrae, compression of spinal cord by osteitis deformans, giant cell tumor and polyostotic fibrous dysplasia of (ab), 522
congenital fusion of, 369
human, ring apophysis of (ab), 156
roentgen evaluation of fractures of, resulting from convulsive shock therapy, 247
Vessels, great, diagnosis of complete transposition of (ab), 508
Visualization, selective, in angiocardiography (ab), 999
Volvulus, intestinal, precipitated by lead poisoning (ab), 319
of cecum, 399

Wantz, Julius B., 1874–1952, obituary, 467
portrait, 467
War, German prisoners of, in Russia, gastric ulcer in (ab), 1014
Washington State Radiological Society, 985
Water, elementary processes in radiation chemistry of, and implications for radiobiology (ab), 345
exposed to ionizing radiations, hydrogen peroxide formation in (ab), 346
production of free radicals in, consequent on absorption of ionizing radiations (ab), 346
Wound healing, roentgen spectrographic investigations on collagen structures in (ab), 544
X-ray. See Roentgen ray

AUTHOR INDEX TO VOLUME 68

*=Original Article

Abbott, Osler A., 992
Abeatici, S., 697
Abeshouse, Benjamin S., 154, 528, 689
Abrams, Herbert L., 144, 508
Ackerman, Lauren V., 500
Adams, Forrest, *610
Adams, W. E., 343
Adler, Francis Heed, 480
Aird, Robert B., 321
Albalá, Ignacio, 837
Albert, A., 536
Albert Roy E., 676
Albot, G., 332, 681
Alexander, George L., 166
Alken, C. E., 688
Allen, C. E. L., 157
Allen, Ralph, 686
Allen, Willard, 827
Alley, Frank H., 998
Allsopp, C. B., 345
Alonso, Francisco Arce, 851
Alrich, E. Meredith, 494
Amory, Harold I., 336
Andersen, Ib, 506
Andersen, Preben Thestrup, 506
Anderson, J. C., 688
Andersson, Ture, 678
Andrews, G. S., 157
Andrews, Neil C., 498
Anglem, Thomas J., 863
Angrist, Alfred A., 854, 999
Antonetti Muñiz, Carlos, 996
Apley, A. G., 693
Arana, R., 490
Ardran, G. M., 991
Ariel, Irving M., 543
Armbruster, J. L., *915
Arneson, A. N., 67, *925, 949
Arnheim, E. E., 316
Arnold, James S., 165
Arons, Isidore, 825
Arvay, N., 332
Ash, Clifford, 531
Askew, W. A., 165
Auerbach, Oscar, 336
Aune, Edwin F., 533
Aust, J. Bradley, 539
Ayres, W. W., 861

Baclesse, F., 161
Bacon, Ralph D., 469
Bacq, Z. M., 866
Bader, J., 517
Baird, Warren A., 150
Bakay, Louis, 167
Balavoine, C., *38
Balberor, Harry, 679
Ball, Robert P., 492
Ballinger, Charles S., 493
Banker, Harry W., 169
Barberio, J. R., 861
Barlow, T. E., 1014
Barnum, Edwin N., *619
Baron, George J., 168
Barrett, Thomas F., *963
Barsh, A. G., 150
Bass, Richard, 999
Bassett, Samuel H., 540
Bassi, Guido, 305
Bastos Ansart, Manuel, 694
Bates, John C., 497
Baty, John A., 684
Bauer, Frank K., *963
Bauer, R., 313
Bauer, William B. A. J., 682
Baumeister, Carl, 538
Baux, R., 848
Bayrd, Edwin D., 541
Beck, Stanley M., Jr., 322
Becker, Josef, 539
Behrendt, H., 499
Beigelman, M. N., 668
Beilin, David S., 312
Bell, John W., 704
Bell, William H., *887
Belle, Martin S., 686
Belton, A. A., 689
Benchimol, Newton Burlamaqui, 514
Benda, Ph., 855
Bender, Merrill A., *413
Benedek, Tibor, 541
Benedict, Edward B., 147
Benell, O. E., *639
Benjamin, H. B., 833
Benner, Sven, 350
Bennett, L. R., 340
Bennett, Leonard L., Jr., 339
Bente, D., 706
Bentley, F. H., 1014
Beranbaum, Samuel L., 515
Berenbom, M., 871
Berg, H. H., 835
Berg, Harold F., 540
Berger, I. R., *900
Berger, Knute E., 319
Bergman, Martin, 849
Bergmann, Martin, 500
Berlin, Nathaniel I., 527
Bernstein, Arthur, 504
Berry, Harrison M., Jr., 489
Bessler, W., 859
Beutel, A., 1009
Bezold, K., 696
Bick, Edgar M., 156
Bindi, V., 504
Bingham, John R., 146
Birath, G., 507
Bissylas, Savas, 512
Black, B. Marden, 150, 825
Blackburn, Charles M., 858
Blackwood, James, 519
Blady, J. V., 824
Blahd, William H., 540
Bland, Edward F., 1003
Bleich, Alan R., 514
Bloedorn, Fernando G., *935
Bloomfield, J. R., 870
Bloor, Byron M., 342, 866
Bloor, Robert J., 822
Blum, E., 840
Bocca, Ettore, 992
Boden, Geoffrey, 326, 853
Boice, C. L., 154
Boland, J., 328
Bolck, F., 543
Bonebrake, MacDonald, *925
Bonét-Maury, P., 346
Bonnal, J., 989
Bonnet, G. F., 681
Bonse, G., 530
Booher, Robert J., 149
Boreau, J., 518
Bosworth, David M., 523
Boulvin, R., 846, 847
Brackin, John T., Jr., *887
Bradley, Walter O., 170
Brailsford, James F., 526
Brainard, Scott C., 837
Branca, A. W., 863
Brand, Theodore R., 492
Brandon, J. R., 322
Brandt, Eugenia L., 340
Brandt, F. A., 501
Brannan, D. D., *204, 824
Brason, Frederick W., 844
Braun, K., 507
Breakey, Arnold S., 495
Brindenbaugh, Richard B., 698
Bringhurst, L. S., 515
Brodie, S. Steven, 854
Brodin, Harald, 845
Brofman, B. L., 1002
Brook, Ray, 142

Brooke, B. N., 318
Brosius, William L., 826
Brown, Austin, 694
Brown, E. M., 164
Brown, J. J. Mason, 839
Brown, John R., 140
Brown, Mary B., 867
Brown, Reynold, 674
Brown, Willis E., 533
Browne, J. C. McClure, 152
Brucer, Marshall, 856
Brunschwig, Alexander, 534
Brunst, V. V., *281
Bryan, John R., 824
Buckles, Maurice G., 679
Budenz, G. Charles, 826
Büll, H.-J., 543
Burbank, John, *399
Burkell, C. C., 701, 873
Burnett, Jack M., 993
Burrage, Walter S., 841
Burton, Milton, 345
Butler, T. J., 147
Butz, Robert A., *47
Buzaid, Louis L., *552
Byrne, R. N., 515

Caceres, Eduardo, *779
Cade, Stanford, 703
Caffey, John, *875
Camp, John D., 328
Campbell, J. A., 827
Campbell, J. Crawford, 526
Campbell, John A., 823
Campbell, Maurice, 496, 509
Campi, L., 697
Canter, Noland M., Jr., 315
Cantor, Meyer O., 316
Cantril, Simeon T., 65
Capper, W. M., 147
Capurro, Federico Garcia, 833
Cardoen, G., 700
Carlens, Eric, 678
Carlson, Glenn D., 466
Carlson, Ralph F., 343
Carpender, James W. J., *72
Carroll, C. C., 868
Carter, Bayard, 320
Carter, John P., 320, 494
Carter, Ray A., *198, 977, 997
Casanova Díaz, J., 687
Casas, Raul, 144
Cassen, Benedict, *963
Castellano, Francesco, 1011
Catá, Gabriel, 988
Caudill, Carrel M., 866
Caughey, J. E., 990
Caulk, Ralph M., 271
Cave, Paul, 1013
Caylor, Charles E., 169
Caylor, Harold D., 823
Caylor, Truman E., 169, 823
Chamberlain, W. Edward, 829
Chambers, F. W., Jr., 170
Chambliss, J. R., 1002
Chambraud, M. R., 699
Chance, Oliver, 335
Chapman, W. H., 170
Charbon, Bernard C., 343
Charbon, Harmia G. A., 343
Charpin, J., 505
Charteris, Alexander A., 839
Chase, Herman B., 343
Cherry, C. P., 533
Chesky, V. E., 1003
Chevalier, M., 846, 847
Child, Charles G., III, 698
Childs, Donald S., Jr., 329
Cholmeley, J. A., 156
Chou, Shelley N., 539
Christensen, William R., 702, *801
Christie, Arthur C., 468, 996
Cifuentes Delatte, Luis, 837
Cimmino, Christian V., *19
Clagett, O. Theron, 496
Clément, J., 491
Cleveland, Mather, 523
Cloward, Ralph B., *552
Cocchi, Umberto, 534, *570, 995
Coffey, J. H., 494
Cohen, Abraham G., 996
Cohen, Ira, 988
Cohen, Jonathan, 521
Cohen, Seymour R., 997
Colby, Fletcher H., 153
Cole, Arthur, 826
Cole, Francis H., 998
Coley, Bradley L., 695
Coliez, Robert, 857
Collier, Fred C., 843
Collins, E. N., 493
Collins, James I., 150
Collins, Vincent P., 864
Columella, F., 842
Combs, G. N., 165
Conant, Norman F., 504
Conforti, Victor P., *736
Conley, John W., 516
Connar, Richard G., 504
Connell, Thomas H., Jr., 536
Connell, W. Ford, 836
Constans, J., 855
Conway, D. J., 998
Conwell, H. Earle, 667
Conyers, William H., Jr., *229
Cooke, W. T., 318
Coolbaugh, Carl C., 166
Copel, Joseph W., 156
Copeland, Murray M., 706
Cornil, Lucien, 343
Corrigan, K. E., *421, 826
Corscaden, James A., *47, 335, *779
Cosgriff, Stuart W., 541
Costello, Francis V., 694
Costolow, William E., 826
Cowan, Leland R., *545
Cozen, Lewis, 158
Crafoord, C., 507
Craig, Benjamin R., 860
Craver, Lloyd F., 339
Crawford, G. Marshall, 705
Cregan, J. C. F., 155
Crimm, Paul D., *240
Cromer, J. Keith, 518
Cronkite, E. P., 170
Cross, Frederick S., 317
Crystal, Dean K., 145
Cullen, T. H., 518
Culp, David A., 822
Curtis, George M., 498
Cuyler, W. Kenneth, 320

Dahmann, J., 680
Dailey, Morris E., 166
Dainton, F. S., 346
Dale, W. M., 346
Daly, John N., 523
Daniel, Rollin A., Jr., 160
Daniloff, Gladys Taylor, 510
Darby, E. K., 348
Daughaday, William H., 707
Davenport, M. E., 324
Davidoff, Leo M., 164
Davidson, Horace B., 679
Davies, F., 689
Davies, Hugh, 519
Davies, Robert R., 509
Davis, Fremont E., *954
Davis, Harwell, Jr., 492
Davis, Lawrence A., 663, 852
de Cuveland, E., 523
Dell, J. M., Jr., 824
DeLella, Dante, 822
deLorimier, Alfred A., 694
del Regato, J. A., *63
De Maestri, Alfredo, 851
Dennis, John M., 487
Deucher, W., 836
de Visscher, Michel, 858
Dew, Robert S., 160
Diamond, Henry D., 339
Diaz, J. R. Casanova, 314
Di Chiro, Giovanni, 487
Dickinson, Joshua C., 529
Dinhoffer, Norman, *229

Di Rienzo, S., 998
Dobson, J., 691
Dobyns, Brown M., 536, 708, 869
Dockerty, Malcolm B., 317
Dolly, Cyril H., 1000
Donohue, W. L., 168
Donovan, G. E., 354
Dotter, Charles T., 476, 490, 495, *627, 824, 1000, 1006, 1011
Dowda, F. William, *413
Dowdy, Andrew H., 170
Dragstedt, Lester R., 857
Drake, Eugene H., 498
Drash, E. Cato, 494
Dravin, I., 494
Dreese, W. C., 1003
Drescher, Heinz, 850
Drew, A. J., 693
Dreyfuss, F., 141
Drymalski, George W., 513
Dubilier, William, 824
Ducuing, J., 848
Duffy, Benedict J., Jr., 338, 492
Dunbar, Howard S., 488, 490
Dusault, Lucille, 826
Dutreix, J., 857

Eberhard, Theodore P., 433
Ecker, Arthur, 699
Eells, Richard W., *8
Effler, Donald B., 493, 507, 1007
Eggert, John, 666
Ehni, George, 690
Ehrenhaft, J. L., 500
Ehrenpreis, Bernard, *28
Eidinoff, M. L., 856
Elbim, A., 518
Elkin, Milton, 995
Elkins, H. B., *81, 822
Ellinger, Friedrich, *275
Eltorm, Helge, 506
Elvidge, Arthur R., 1000
Engel, Milton B., 869
Engel, W. J., 517
Enjalbert, A., 848
Epp, E. R., *788
Epstein, Bernard S., 488, *730
Ernst, Edwin C., 66, 825, 947
Ernst, Edwin C., Jr., 825
Errera, M., 305
Eschner, Edward G., 342, 844
Esguerra Gómez, Gonzalo, 498
Estrada Gonzáles, Rafael, 988
Evans, F. Gaynor, 166
Evans, John A., *754
Evans, Winfield W., 342
Eyler, William R., 153

Fagin, I. Donald, 679
Farrow, Franklin C., 153
Fassio, Étienne, 681, 1012
Fearon, Henry D., *448
Fedoruk, S. O., *788
Feil, H., 1002
Feld, M., 491
Feldman, Maurice, 512, 513
Feldman, N., 324
Fell, Egbert H., 144
Felländer, Max, 845
Felson, Benjamin, 512, 823
Fennell, Robert H., Jr., 335
Ferguson, Thomas B., 504
Ferriera, Octavio Almerindo, 705
Fetter, John S., *255
Figley, Melvin M., 822, 999
Fincher, Edgar F., 989
Fink, Jack P., 312
Fischer, F. K., 993
Fischgold, H., 673
Fiset, Paul, 143
Fisher, Martin M., 680
Fishman, Melvin B., 150
Fitzgerald, Patrick J., *338, 856
Flecker, H., *37
Fleischner, Felix G., 1008
Fletcher, D. E., 865
Fletcher, Gilbert H., 345, 826, *935
Flocks, Rubin H., 822
Flores Estades, S. M., 530
Follis, Richard H., Jr., 528, *709
Foltz, Eldon L., 1010
Ford, G. D., 322
Foreman, Nadine, 166
Forsyth, Constance C., 1003
Fox, Sidney, 686
Franceschetti, A., *38
Frank, Bernard, 1004
Frazell, Edgar L., 492
Freedberg, A. Stone, 337
Freeman, John W., 825
French, Lyle A., 866
Freund, Hugo A., 700
Fried, Jacob R., 164
Friedland, Lester M., 517
Friedman, Milton, 336, 852
Friedman, Nathan B., 860
Frimann-Dahl, J., 478
Frommhold, W., 506
Fua, R., 518
Fullenlove, Tom M., 824
Fuller, Lillian M., 822
Furman, Irvine K., 497

Gaddis, John W., *900
Gadermann, E., 847

Gaillard, C., 505
Galante, Maurice, 347
Gallus, P., 846, 847
Galton, D. A. G., 328
Gandar, R., 840
García Plasencia, M. A., 988
Gárciga, C. E., 868
Gardner, Richard E., 347
Garland, L. H., 312
Garry T. P., 1006
Garsche, R., 501
Gartland, John J., Jr., 522
Gasul, Benjamin M., 144
Gauwerky, F., 690
Gay, Brit R., Jr., 140, *183
Geist, Robert M., Jr., *262
Gelbke, Heinz, 544
Gellhorn, Alfred, 864
Genovese, P. D., 509, 510
Gerlach, Bernhard, 316
Gernstetter, Sangwill L., 521
Gershon-Cohen, Jacob, *1, *391, 515, 1009
Gianturco, Cesare, 825
Gibb, Robert, 853
Gil y Gil, 843
Gilbert, René-J., 331
Gilliam, Alexander G., 687
Gillwald, F. N., 157
Gilmore, Frederick R., 142
Gioia, Joseph D., *452
Girdany, Bertram R., *922
Glauner, R., 304
Gleize-Rambal, M. L., 682
Glistrup, E., 506
Glotzer, D. J., 870
Glücker, L. G., 1004
Godwin, John T., 338
Goes, Martin, 864
Golden, H. M., 502
Golden, M., 528
Golden, Mano R., 153
Golden, Ross, *922
Goldenberg, Raphael R., 489, 695
Goldfeder, Anna, 869
Golding, F. Campbell, 325
González-Martínez, I., 687
Goodwin, William E., *963
Goolden, A. W. G., 703
Gordon, Burgess, 1005
Gordon, E. Leiter, 870
Gordon, Elias, 168
Gordon, Joseph, 142
Gottlieb, Leo, 707
Gowen, G. Howard, 1004
Goyette, Edwin M., 510
Graham, Evarts A., 501, 849
Graney, Charles M., 149

Granke, Richard C., 342
Grant, Roald N., 149
Graub, Milton, 334
Gray, Howard K., 317
Green, George G., 864
Greenberg, Avrom M., 686
Greenberg, Bernard, 842
Greenblatt, Robert B., 521
Greene, Gerald S., *736
Greenfield, M. A., *950
Greep, Roy O., 543
Grenan, Marie M., 343
Griffin, A. Clark, 340
Griffiths, I. H., 838
Grime, R. T., 684
Groeschel, August H., 306
Groskopff, K.-W., 543
Gross, H. A., 861
Gross, Robert E., 347
Gross, Sidney W., 522, 988
Grossman, Solomon, 504
Guelfi, J., 857
Guilhem, P., 848
Gurdjian, Elisha S., 140, 823
Gusberg, S. B., 335

Haagensen, C. D., 334
Haas, Lewis L., *644
Hadley, Lee A., 823
Hagans, James A., 684
Haines, Samuel F., 858
Haley, Thomas J., 170
Hall, Augustus A., 514
Hall, Byron E., 167
Hallerbach, H., 495, 511
Hamada, Gawad, 693
Hamblin, Donald O., 514
Hamman, Louis, 685
Hammer, John M., 160
Hancox, N. M., 842
Hand, Katherine, *950
Handloser, John S., 341
Hankins, F. D., *272
Hanson, Hans Erik, 678
Hantelmann, Br., 498
Harcourt, M., 165
Hare, Hugh F., 342, *435
Harkness, James T., 312, 313
Harris, William, 163
Harrison, Marlow B., 510
Harriss, E. B., 537
Harsha, William N., 857
Hartweg, H., 849
Harvey, Roger A., *644
Hatcher, C. Howard, 526
Hawes, Lloyd E., 520
Hay, J. D., 842
Hayden, H. S., *421, 826
Hayden, Robert S., 149
Hayes, George J., 342
Haynes, Earl R., 515
Hayt, Emanuel, 306
Hayt, Lillian R., 306
Healy, R. J., 143
Heckman, James A., 842
Heersma, H. Sidney, 160
Hefke, H. W., *915
Hegemann, Gerd, 544
Hejtmancik, Milton R., 676
Hellwig, C. A., 1003
Helmsworth, James A., 823
Hempelmann, Louis H., 535
Henderson, D. Nelson, 515
Henry, George W., *15, *386, 681
Hermann, P., 518
Hermanson, Louis, 313
Hermel, M. B., 141, *391, 515
Herráiz Ballestero, Leopoldo, 860
Herrmann, George R., 676
Herrmann, K. O., 1011
Herve, A., 305, 866
Herzan, Francis A., *104
Hess, Wallace E., 523, 701
Heublein, Gilbert W., *736
Heuck, F., 523
Heustis, Albert E., 874
Hickman, Clark, 827
Higinbotham, Norman I., 336
Hill, Walter Bradley, 141
Hilton, Gwen, 326
Hinkel, C. L., *171
Hinshaw, H. C., 312
Hirsch, A., 1008
Hirschtick, Allan B., 524
Hoare, R. D., 698
Hochberg, Lew A., 680
Hockin, J. G., *272
Hodes, Philip J., 487
Hodges, Fred J., 686, 999
Hodges, Paul C., 687, 829
Hodgson, John R., 328
Hoffman, Arthur, 150
Holden, W. S., 842
Hollcroft, Joanne Weikel, 870
Holmes, A. V., 166
Holt, John F., 824
Holt, L. E., Jr., 168
Honig, Edward I., 1011
Hopkins, William A., 144, 992
Horn, Robert C., Jr., 537
Hornberger, Wilhelm, 702
Horst, Wolfgang, 166
Howard, Philip J., 322
Howard, William H. R., *395
Howes, William E., 270
Howland, J. W., 340
Høyer, Andreas, 302
Huard, P., 851
Hubble, Douglas, 333, 989
Hughes, C. Robert, *903
Hursh, John B., 347
Hutchinson, Franklin, 341
Hutson, William F., 338
Hyndman, Charles F., 514

Idbohrn, Hans, 160
Imbriglia, Joseph E., 314
Inderlied, H. F., 824
Infante, Eduardo, 988
Ingelfinger, Franz J., 146
Ingleby, Helen, *1, 1009
Ingraham, Franc D., 824
Ingram, M. D., Jr., *918
Isard, Harold J., *247
Israel, S. Leon, 303
Iverson, Bertha, 169

Jackman, Raymond J., 318
Jackson, C. L., 824
Jackson, S. H., 168
Jackson, W. P. U., 157, 849
Jacobs, L. M., 509
Jacobson, George, *198, *954, 997
Jacobson, Harold G., 495, 542, 824
Jaeger, Rudolph J., 825
Jaffé, Bertha, 538
Jaffé, Frederick A., 500
Jaffe, Henry L., 826
Jahn, Richard P., 1009
James, Arthur G., 854
James, J. I. P., 156
Jampolis, Robert W., 496
Janker, R., 495, 511, 1001
Jaruszewski, E. J., 1002
Jay, Gilbert D., III, 160
Jeffrey, Robert B., 825
Johansen, Robert, 347
Johns, H. E., 348, *788
Johnson, Herbert C., 698
Johnson, Jesse B., 827
Johnson, Lent C., 696
Johnstone, Alan Stewart, 148
Joistad, Arthur H., Jr., *216
Jones, Glyn, 354
Jones, Russell S., 998
Jones, T. Duckett, 1003
Jones, W. A., 836
Jönsson, Gunnar, 999
Jorgens, Joseph, *610
Josey, A. Izard, 322
Joyet, G., 873
Junghanns, Herbert, 302

Kabanchik, Manuel, 142

Kahn, Sidney, 333
Kaiser, Thomas F., 319
Kapferer, J. M., 1008
Kaplan, Gustave, 340
Kaplan, Henry S., 508, 681, 867
Kaplan, I. W., 513
Kasmersky, C. T., *395
Kaufman, J. J., 524
Kaufman, Seymour A., 497
Kaufman, Seymur, 1002
Kaufmann, Louise A., 320
Kay, Earle B., 493, 824
Kearns, John E., 338, 492
Keating, F. Raymond, 539, 825
Keating, F. Raymond, Jr., 536, 858
Keefer, Edward B. C., 824
Keirns, Marvin M., 510
Keizer, D. P. R., 323
Kemler, R. Leonard, 500
Kemp, F. H., 991
Kenin, Abel, *107
Kennedy, Roger L. J., 328, 329
Kent, Edward M., 854
Kerekes, Ernest, *89, 533
Kerekes, E. S., 165
Kergin, Frederick G., 1003
Kerr, H. Dabney, 822, 829
Key, John Albert, 667
Kimmelstiel, Paul, 693
King, Don, 155
King, E. R., *413
King, John W., 843
Kirsner, Joseph B., 151
Klassen, Karl P., 498
Kleimans, Marcos, 142
Kligerman, Morton M., 541
Klopp, C. T., 861
Klotz, Arthur P., 151
Knight, Charles D., 150
Knoll, J. E., 856
Knutson, Kenneth P., 503
Kollberg, Gösta, 846
Korkis, F. Boyes, 1008
Kornelsen, R. O., 348
Kozonis, M. C., 502
Krebs, Carl, 852
Kretschmer, Herman L., 841
Kronen, W., 315
Kuhn, Hedwig S., 480
Kurland, George S., 337
Kurzon, Alvin M., 518
Kutz, Eugene R., *809
Kutzman, Nathaniel, 153

LaBree, John, *610
Lake, Richard A., 496
Lake, Max, 158
Lamerton, L. F., 352, 537
Land, Edwin H., 865
Lang, Frederick R., 859
Lange, Jean, 155
Langham, Wright H., 339
Lanman, J. T., 168
LaPointe, Henri, 833
Larks, S. D., 874
Lasala, Atilio J., 1013
Laski, B., 168
Laufer, S., 317
Laughlin, John S., *644
Lawrence, John H., 527
Lawrence, Lewis R., 140, 824
Lawson, T. L., 696
Laxdal, O. E., 168
Leaver, Frank Y., 497
Leb, A., 332, 833
Leblond, Sylvio, 143
Leborgne, Felix E., 162
Lebow, Milton, 166
Ledwich, Thomas W., 347
Lee, Helen C., 527
Lees, James C., 502
Leger, L., 332
Leigh, Ted F., 144, 992
Leith, W., 841
Lemon, Henry M., 863
Lennon, Beatrice, 869
Lenzi, Mario, 1007
Lenzini, L., 504
Lepan, R., 681
Leslie, Lawrence W., 312
Leucutia, T., 658, *770
Leutschaft, Roderich, 544
Levene, George, 169, 497, 1002
Levin, Emanuel J., 512
Levin, R. T., 510
Levine, Jack, *107
Levine, Samuel, *391
Levitt, Walter M., 325
Levy, E., 849
Levy, Marvin S., 540
Liess, G., 489
Lindahl, Olov, 863
Lindblom, K., 169, *209, 691
Lindemann, Bruno, 867
Lindfren, Erik, 487
Lindig, W., 997
Lipman, Bernard L., 849
Lippert, Karl M., 497
Lippincott, Samuel W., Jr., 342
Lisa, James R., *452
Little, William J., 823
Lloyd, Frederick A., 840
Lloyd, Geoffrey H. T., 529
Lochhead, Roger P., *627
Lockwood, Robert C., 525
Loehr, William M., *355, *584
Lofstrom, J. E., 823
Loose, K. E., 332
López, Efrén Gulliermo Jurado, 1001
Lopusniak, Mieczyslaw S., 314
Lorber, Stanley H., 683
Lorenz, Egon, 870
Loucks, H. H., 993
Love, Jesshill, 165
Love, Robert A., 341
Love, V. Logan, *448
Lovelock, Francis J., 862
Lowenburg, Harry, Jr., 849
Lowenhaupt, Elizabeth, 674
Lübker, Heinz, 690
Luce, James C., 841
Luikart, Ralph H., Jr., 705
Lundberg, Einar A., 319
Luttgens, William F., 541
Lyons, Harold A., 674

McAdams, George B., 858
Macarini, N., 682, 834
MacBryde, Cyril M., 707
McCarroll, H. R., 156
Macaulay, Duncan, 988
McClenahan, John L., *406
McClure, Roy D., 536
McClure, Roy D., Jr., 698
McConahey, William M., 539
McCord, Malcolm C., 684
McCorkle, H. J., 347
McCort, James J., 499
McCullough, Norman B., 323
Macdonald, Ian, *954
MacGregor, John R., 160
McGuire, John F., 825
McGuire, Johnson, 823
Macht, Stanley H., *809
McLaurin, Robert L., 824
MacMillan, Howard C., 686
McWhirter, Robert, 327
Majewski, Joseph T., 853
Malis, Leonard I., 988
Maloof, Farahe, 708
Malossini, Emillio, 992
Manalan, Maurice M., 823
Mann, Samuel, 170
Marañón, Dres, G., 530
Marchand, Ernesto J., 676
Marchi, Floyd F., 347
Margolis, George, 866
Marks, Hirsch, 826
Marks, Joseph H., 154
Martin, Charles L., 271
Martin, Dorothy, 514
Martin, Eric, 330

Martin, Francis, 140
Martin, J. F., 1002
Martin, John E., 824
Martin, K. Whittle, 320
Martin, William L., 1013
Marvel, Robert J., 509
Masen, John M., 514
Matson, Donald D., 824
Mattsson, Ove, 542
Matzinger, Karol E., 345
Mauderli, W., 873
Maynard, Aubre de L., 998
Mayo, Charles W., 318
Mazar, Steven A., 849
Mazer, Charles, 303
Meador, George E., 696
Medine, Myer M., 861
Meeker, Irving A., Jr., 347
Meigs, Joe V., 70, 335, 516, 704
Meister, Th., 859
Mellins, Harry Z., *634
Menville, Leon J., 149
Meredith, W. J., 351
Merliss, Reuben R., 150
Meschan, I., *89, 165, 533
Métras, H., 505
Metzger, J., 673
Meynell, G. G., 993
Middlemiss, J. H., 525
Milkey, Gustave, 844
Miller, Earl F., 347
Miller, Earl R., 166, 312, 313, 708
Miller, George A., 825
Miller, Isidore Rod, 504
Miller, Joseph B., *229
Miller, Joseph M., *887
Miller, Theodore R., 530
Minder, W., 346
Minnaar, de Villiers, 697
Mitchell, J. Russell, *764
Mitchell, Joseph S., 336
Mixter, Charles G., 313
Mohney, John B., 347
Molineus, W., 689
Moloy, Howard C., 665
Monacelli, Carl J., 169
Mondolfo, Silvano, 159
Mondor, Henri, 837
Moore, B. P., 678
Moore, Felix E., 677
Moore, George E., 539, 698, 866
Moore, J. P., 824
Moore, Ralph C., 490
Moore, Sherwood, 490, *565
Moos, W. S., *797
Moreton, Robert D., 690
Morgan, J. E., 170
Morgan, Russell H., 542, 685, 829
Morin, J. Edouard, 143
Morle, K. D. Forgan, 505
Morris, R. W., 509
Morrison, Samuel, 513
Morse, Anna, 543
Morton, Joseph L., 854
Moses, Campbell, 854
Moss, P. D., 842
Moyer, Ralph E., 141
Mucchi, L., 842
Mufson, Monroe, 539
Mullen, Wylie H., Jr., *903
Munk, J., 1004
Munnel, Edward D., 160
Murray, J. F., 501
Musselman, Merle M., 511
Mustard, R. A., 531

Nabarro, J. D. N., 327
Nagel, M., 846, 847
Nahas, Hector C., 996
Nangel, E. J., 156
Nanson, Erick M., 321
Nechtow, Mitchell J., 518
Negus, V. E., 161
Nelson, Ole A., 169
Neptune, Wilford B., 679
Nettleship, Anderson, *89
New, Paul F. J., 314
Newell, Robert B., 315
Newman, Charles M., 522
Newman, Walter, 495
Ney, Charles, 688
Nichol, A. D., 508
Nichols, O., 870
Nichols, Russell L., *72, 687
Nielsen, Jens, 163
Nisson-Lie, H. S., 843
Noel, William E., *413
Nolan, James F., 78, 826
Nordenström, Björn, 678
Norris, C. M., 824
Nosal, Joseph L., 1013
Nuboer, J. F., 144

Oberhelman, Harry A., Jr., 857
O'Brien, Frederick W., *104
Ødegaard, Haakon, 155
Oderr, Charles, 824
Oechsli, Waldo R., *725
Olinger, John K., 1009
Oliva, L., 682, 834
Oliver, David R., 527
Olivier, A., 851
Olivier, Claude, 837
Olson, John D., 317
O'Malley, Robert D., 492
Oppenheim, Abraham, 825
Orr, I. M., 315
Osius, Eugene A., 160
Osterreicher, D. O., 825
O'Sullivan, Ward D., 698
Ottolenghi, Carlos E., 521
Overholt, Richard H., 505

Pack, George T., *452, 530
Paillé, J., 848
Paleirac, 683
Palmer, Eddy D., 149
Palmer, Walter L., 151
Palumbo, Leonard, 320
Parchet, Victor, 1007
Park, Edwards A., 528, *709
Park, W. Wallace, 502
Parker, J. R., 825
Parker, James E., Jr., 169
Parsonnet, Victor, 315
Parsons, William Barclay, 492
Paschlau, G., 1014
Paterson, Ralston, 704
Patterson, P. O., 827
Patti, F., 346
Paus, Bernhard, 692
Payne, Mary Ann, 698
Peacock, Wendell, 538
Pease, Gertrude L., 167
Pecantet, Juan Carlos, 833
Pechstein, George R., 512
Pedersen, Herbert E., 156
Pendergrass, Eugene P., 487, 829
Perlman, Lawrence, 504
Perlman, Robert, 520
Perlmutter, Martin, 539
Perussia, Felice, 329
Petersen, Hilda, 506
Peyton, William T., 539, 866
Pfahler, George E., 850
Philbrook, Frank R., 864
Pirkey, Everett L., 169, 663, *900
Poppel, M. H., 542, 824, 984
Porcher, Pierre, 837
Porte, Daniel, 1005
Portmann, U. V., *262
Posner, Adolph, 861
Potozky, Henry, 497
Potter, Edith L., 479
Potts, William L., 679
Poulsen, Thue, 506
Pranke, Don, 840
Prather, George C., 319
Pratt, Philip C., 142
Preuss, Luther E., 536
Priviteri, Charles A., 140
Psenner, L., 139, 488
Pugh, David G., 825
Purdy, Ann, 508

Putschar, Walter G. J., 526
Quimby, Edith H., 339
Rader, Bertha, 676
Rall, J. E., 538
Ramsey, Robert, 527
Rand, Carl W., 516
Raphael, Sumner I., *58, 153
Rapp, Ira, 693
Ravdin, I. S., 537, 863
Rawson, Rulon W., 338, 538
Ray, Bronson S., 488, 490
Rayle, Albert A., Jr., *457
Reese, A. J. M., 849
Reeves, Robert J., 829
Reich, Alfred, 843
Reich, Walter J., 518
Reid, Frank, 151
Reid, R. G., 519
Reinhart, H. A., 141
Rekers, P. E., 340
Renner, W., 705
Restrepo, Roberto, 532
Retterbush, William C., 150
Reynolds, Fred C., 527
Reynolds, Lawrence, *421, 826
Riches, E. W., 518, 838
Riebel, Frank A., 868
Riemenschneider, Paul A., 699
Rigler, Leo G., *610
Ritter, J. Sydney, 689
Ritvo, Max, *369
Robbins, Laurence L., 153, 499, 822, 865
Roberts, Douglas J., Jr., *627
Robertson, Philip W., 505
Rodríguez Fontela, Carlos, 860
Romagosa, Jerome, 149
Rosa, Pierre, 687
Rosenbaum, George R., 315
Rosenblum, Ira, 858
Rosenblum, Jacob, 842
Rosenthal, Ira M., 849
Rosh, Rieva, 864
Ross, Joseph F., 863
Ross, Robert A., 320
Rossi, Lucio, 674
Roswit, Bernard, *275, 340, 824, 853
Rot, Anton, 696
Rowe, Charles A., 524
Rowley, K. A., 865
Rozek, Edward C., 149
Rubin, M., 528
Ruckensteiner, E., 322
Rude, Joe C., 827
Ruggiero, Giovanni, 1011
Rushmer, Robert F., 145, 146
Russell, Brian, 327
Russell, J. Y. W., 315
Russo, Peter E., 825
Rutstein, David D., 677
Ryan, Allan J., *399

Sacks, Sidney, 157
Sadler, J. M., 533
Safran, Nathaniel, 686
St. John, Elmer, 993
Salembier, Y., 681
Salkin, David, 984
Salmon, H. W., 993
Salter, William T., 858
San Julián, J., 490
Sames, Samuel, 844
Sansone, G., 834
Santamaria, F., 989
Sarasin, R., *38
Sarnat, Bernard G., 869
Sauer, Heinrich, 166
Sawyer, David, 342
Scanlan, Robert L., *894
Schajowicz, Fritz, 159, 521
Scheer, Kurt Ernst, 539
Scherlis, I., 528
Schilder, J. H., 323
Schlesinger, Benno, *403
Schlesinger, Monroe J., 1002
Schludermann, H., 1011
Schlungbaum, Werner, 535
Schmidt, Richard T. F., 165
Schmitz, Herbert E., 837, 853
Schmorl, Georg, 302
Schmuñis, M., 845
Schneider, M., 322
Schneider, W., 706
Scholz, Frank, 864
Schorr, S., 141, 317, 507
Schrader, E. A., 847
Schreiber, Herbert, 513
Schroeder, A. H., 490
Schulman, I., 168
Schurr, P. H., 487
Schwartz, A., 141
Schwartz, William S., 141
Schwartzman, Joel J., 168
Schwarz, Alfred W., 854
Schwinger, Harold N., *28
Scott, Beatrice, 513
Scott, J. C., 692
Scott, Kenneth G., 347
Scott, Ralph C., 823
Scott, Ronald Bodley, 325
Scott, Wendell G., 707, 829
Sealy, Will C., 504
Seaman, William B., 491, 827
Sears, W. Norman, 154
Secor, Charles, 155
Seed, Linden, 538
Seemann, E., 868
Segal, A. J., 508
Segel, Arnold L., 313
Seley, Gabriel P., 144
Selverstone, Bertram, 337
Selye, Hans, 669
Selzer, Arthur, 510
Sennott, Waldron M., *764
Shalek, Robert J., 826, *935
Shapiro, Alfred J., 854
Shapiro, Robert, 1010
Sharp, R. W., 318
Shaw, R. Cunliffe, 683
Shaw, Robert R., 143
Shay, Harry, 683
Shechter, Fred R., 334
Shehadi, William H., *360, 689
Sheinmel, Archie, 140
Sheline, Glenn E., 166, 708
Shepard, R. M., 513
Sherman, Alfred I., 827, *925
Shipman, S. J., 312
Shipps, F. C., *204
Sholes, Dillard M., Jr., *19
Shook, Frank W., 169
Shoul, Melvin I., *369
Siltzbach, Louis E., 861
Simmel, E. B., 856
Simon, Gaston-Claude, 837
Simril, Wayne A., *8
Singh, Bawa P., 334
Singleton, Edward B., 824
Sirry, Aly, 843
Sisson, John H., 863
Skapinker, Samuel, 677, 697
Skipper, Howard E., 339
Sloan, Herbert E., Jr., 822
Small, Maurice J., 862
Smith, Charles J., 837
Smith, Curtis A., 857
Smith, Falconer, 343
Smith, Grafton A., 866
Smith, Robert R., 499
Smith, Warren W., 676
Smithwick, Reginald H., 146
Smoller, Saul, 513, 998
Snelling, C. E., 168
Snow, William, 825
Soley, Mayo H., 166, 347
Soloff, Louis A., 677
Solomons, Edward, 1006
Somerville, Philip, 836, 1010
Sommers, Sheldon C., *801

Sones, F. Mason, Jr., 507
Sonnenschein, Arnold, 159
Sorrentino, Joseph, *275, 542, 853
Sosman, J. Leland, 153
Sosman, Merrill C., 995
Spalding, Charles K., *801
Spargo, B., 870
Spear, Harold C., 837
Speert, Harold, 339
Spicer, Donald W., *413
Spiers, F. W., 349
Spillane, John D., 529
Spillane, Richard J., 319
Spitz, Sophie, 336
Spring, Maxwell, 333
Sreenivasan, B. R., 994
Stack, James K., 525
Stafne, Edward C., 990
Stahl, André, 343
Statland, Harry, 673
Stauffer, Herbert M., 677
Steel, David, 665
Steffens, Walter, 666
Stein, George N., 314
Steinbach, Howard L., 141
Steinberg, Israel, 476, 495, 824, 1000, 1006, 1011
Stephenson, B. R., 342
Stern, A. M., 822, 999
Stevenson, Clyde A., 898
Stewart, John A., *749
Stoll, Roger, 999
Stone, Daniel J., 862
Storer, Edward H., 857
Storey, Clifford F., 318, 503, 674
Storstein, Ole, 999
Stout, A. P., 334
Straus, Bernard, 849
Street, Dana M., 523
Stroebel, Charles F., 167
Stuart, M., 704
Stuck, Walter G., 692
Sturm, Ralph E., 542
Sullivan, James M., 685
Sunderland, Douglas A., 675
Sutton, David, 698
Suzman, S., 496
Swan, Charles H., 704
Sweeney, Bernard J., 707
Sweet, William H., 858
Swenson, Paul C., 825
Swynnerton, B. F., 685
Symmers, W. St. C., 324
Snyder, Edward N., Jr., *198
Szilagyi, D. Emerick, 160, 536

Taber, Kenneth W., 861
Tänzer, A., 1009
Tapia, M., 503
Taylor, Lauriston S., 975
Teng, Paul, 522
Ter-Pogossian, M., 827, *925
Thackray, A. C., 838
Thal, Nathan, 146
Theodos, Peter A., 1005
Thomas, L. B., 1010
Thomas, R. W., 1005
Thomas, Sydney F., 681
Thomas, Walter L., 320
Thompson, Milton S., 692
Thompson, N. M., 157
Thornton, W. Norman, Jr., 320
Thurn, P., 506
Ticho, Albert, 851
Tilley, Robert F., 705
Tirman, Wallace S., 169, 823
Tivey, Harold, 826
Tomek, St., 862
Torelli, Gastone, 508
Torgersen, Johan, 673
Tori, Giulio, 511, 675
Toulet, J., 681
Touroff, Arthur S. W., 144
Towbin, Milton N., 503
Towne, Janet E., 837
Tran-Anh, 851
Treves, Norman, 675
Truc, Marchal, 683
Truelove, S. C., 685
Trump, John G., 342, *435
Trunnell, J. B., 338
Tubiana, M., 855, 857
Tutton, G. K., 519
Twombly, Gray H., *779

Uchida, Irene, 1003
Ulin, Alex W., 1013
Ullmann, T. D., 317
Usategui, Augusto, 996

Valls, José, 521
Van Allen, Willard W., 344
Van Farowe, Donald, 874
Van Hoek, Donald E., 511
Van Ordstrand, H. S., 868
van Valkenburg, Priscilla A., 347
Van Zwalenburg, Benjamin R., *22
Vassel, B., 518
Verbiest, M.-H., 989
Vespignani, Luigi, 835
Vickery, Austin L., 673
Vogel, F. Stephen, *406
Voisin, R., 848
von Arx, A., 872

Walder, D. N., 1014
Walker, A. Earl, 698
Wall, John A., *935
Walsh, Anthony, 839
Walthard, B., 329
Wangensteen, Owen H., 494
Wangner, Wm. F., 515
Ward, A. A., Jr., 1010
Warden, J. G., 517
Warren, S. Reid, Jr., 668
Wasserman, Marvin M., 673
Wassersug, Joseph D., 503
Wassmann, K., 844
Waterman, George, 153
Waterman, George W., *58
Watson, John H. L., 536
Watson, T. A., 164, 701, 873
Watson, William L., 499
Wattenberg, Carl A., 214
Webber, Banice, 860
Webster, Edward W., 342, *435
Webster, J. E., 140, 823
Weens, H. Stephen, *457
Weinberg, Arthur, 151
Weintraub, Solomon, 825
Weis, J., 332
Weisenfeld, Shirley, 539
Weiss, Leo, 336
Weissman, Herman, 678
Welsh, W. Keith, 531
Wentworth, John H., 865
Wentzlik, Günter, 699
Werley, Charles W., 522
Werner, Alois, 1000
Werner, Sidney C., 339
Wertman, D. E., 824
Wessler, Stanford, 1002
Weyl, Charles, 668
Wheatley, B. M., 353
Wheelock, Frank C., 335
White, Benjamin V., 533
White, George, 702
White, J., 871
White, James C., 337
White, Matthew, 839
Whitehead, A. S., 842
Whitehead, Raymond, 684
Whitehouse, Walter M., 822
Wideröe, R., 872
Wiggers, R. F., 502
Wigh, Russell, 142
Wildman, J., 507
Wilensky, Nathan D., 680
William, Robert T., 825
Williams, A. Justin, 824

Williams, D. Innes, 840
Williams, Roger D., 854
Williams, Sam W., 542
Williamson, Charles R., 677
Willy, Ralph G., 513
Wilson, Angus K., 979
Wilson, C. W., 341, 351
Wilson, Edric, 312
Wilson, J. L., 154, 999
Winham, Arthur J., 512
Witz, J., 840
Woodruff, C. Eugene, 996
Woods, Francis M., 505
Woodward, Edward R., 857
Wookey, Harold, 531
Woolner, L. B., 825
Wrenn, Frank R., Jr., 342, 866
Wright, Kenneth A., 342
Wright, Peter B., 521
Wu, Y. K., 993
Wuehrmann, Arthur H., 169
Wyman, Stanley M., 822, 864

Yalow, Rosalyn, 853
Yerushalmy, J., 312, 313
Young, Barton R., *894

Zaccone, Giovanni, 313
Zatuchni, Jacob, 677
Zdansky, Erich, 478
Zealear, David, 321
Zeluff, George W., 315
Zimmer, E. A., 344
Zinn, W. Berkeley, 142
Zoll, Paul M., 1002
Zondek, Herman, 851
Zuppinger, A., 162, 868
Zwerling, H. B., 312, 313